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Military and Technical Service

C. H. McKergow (*Chairman*)
J. U. MacEwan
F. M. Wood

Employment

R. de L. French (*Chairman*)
C. V. Christie
A. R. Roberts

Scholarships, Bursaries, and Loans

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John Bland
C. V. Christie
G. J. Dodd
A. J. Kelly
D. A. Keys
J. U. MacEwan
J. B. Phillips
A. R. Roberts

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Scholarships

D. L. Thomson (*Chairman*)
G. L. Duff
C. P. Martin
J. F. McIntosh

COMMITTEE ON RESEARCH

Dean D. L. Thomson, *Chairman*

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J. U. MacEwan
J. L. Darbelnet
R. V. V. Nicholls
G. L. Duff
C. L. Huskins
H. Selye
F. F. Osborne

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Representatives on the Board of Governors of the University—G. McL. Pitts, M.Sc. '09, B.Arch. '16, G. Gordon Gale, B.Sc. '03, B.Sc. '04, M.Sc. '05, Charles F. Sise, B.Sc. '97.

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Executive Committee

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Kenneth B. Robertson, B.Sc. '20.

C. F. Sise, B.Sc. '97.

S. Boyd Millen, B.A. '27, B.C.L. '30.

C. J. Tidmarsh, M.A. '22, M.D. '24.

Mrs. W. R. Kennedy, *President Alumnae Society.*

C. J. Tidmarsh, B.A. '16, M.A. '22, M.D., C.M. '24, *President, Montreal Branch.*

F. I. Ker, B.Sc. '09, *President, Central Ontario Branch.*

Dr. A. P. Davies, M.D. '12, *President, Ottawa Valley Branch.*

D. S. Cole, B.Sc. '15, *President, New York Branch.*

The President of the Students' Society.

Editorial Board, "The McGill News"

Professor A. S. Bruneau, B.A. '13, B.C.L. '17.

ON ACTIVE SERVICE

In addition to those whose names appear with an asterisk in the lists of Officers of Instruction and Administrative Staff, which follow, those who held annual appointments at the University and are on Active Service, are:

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Como, Que.

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*On Active Service.

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Hon. Mr. Justice Pierre-Basile Mignault, LL.D. (Laval, McGill and Montreal), Docteur (Hon.) Univ. de Paris.
Emeritus Professor of Legal Ethics. Gleneagles Apartments.

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Emeritus Professor of Architecture. Guysborough, N.S.

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Emeritus Professor of German. Arts Building.

OFFICERS OF INSTRUCTION AND ADMINISTRATIVE STAFF

(alphabetically arranged)

A supplementary list of junior appointments made after the publication of this announcement will be issued early in the session.

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Rev. Cyril H. Adair, B.A., B.D.
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Macdonald College.

E. R. Adair, B.A. (Lond.), M.A. (Cantab.), F.R. Hist. S.
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C. S. BARKER, B.A., M.D.C.M. (Returned from Active Service).
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ALEXANDER MACKENZIE THOMPSON, M.A. (Queen's), Ph.D. (Harvard).
Associate Professor of Classics. Arts Building.

DAVID L. THOMSON, M.A. (Aberdeen), Ph.D. (Cantab.), F.R.S.C.
Dean of the Faculty of Graduate Studies and Research, Professor of Biochemistry, and Chairman of the Department. 3521 University St.

C. J. TIDMARSH, M.A., M.D., C.M., F.A.C.P., F.R.C.P. (C.).
Lecturer in Medicine. 1390 Sherbrooke St. W.

C. GWENDOLINE TOBY, B.A. (Alta.).
Lecturer in Biochemistry in the Institute of Endocrinology and Senior Resident Assistant to the Warden, Royal Victoria College.
Medical Building.

A. M. TORRIE, B.Sc., M.D.
Demonstrator in Anaesthesia. 5451 Bourret Ave.

MILTON R. TOWNSEND.
Demonstrator in Medicine.

G. EDWARD TREMBLE, M.D., C.M., D.L.O. (R.C.P. & S., Eng.), F.R.C.S. (C.).
Lecturer in Oto-Laryngology. 1390 Sherbrooke St. West.

R. DE H. TUPPER.
Vice-Director and Secretary of the Conservatorium of Music and Instructor in Orchestral Playing and Conducting; Lecturer in Chamber and Orchestral Music Repertory and Opera.
677 Sherbrooke St. West.

WILLIAM GEORGE TURNER, M.C., B.A., M.D., C.M., M.R.C.S. (Eng.)
Clinical Professor of Orthopaedic Surgery. (Post retirement appointment). 900 Sherbrooke St. West.

J. G. TYE, B.Sc., M.D. (Louisville).
Demonstrator in Radiology. Royal Victoria Hospital.

HON. MR. JUSTICE ORVILLE SIEVWRIGHT TYNDALE, M.A., B.C.L.
Professor of Civil Procedure and Evidence.
115 Sunnyside Ave., Westmount.

E. FRANCES UPTON, R.R.C., R.N.
Instructor in Nursing Legislation. Suite 1012, Medical Arts Building.

B. USHER, B.A., M.D., C.M.
Lecturer in Dermatology. 1538 Sherbrooke St. West.

S. J. USHER, B.A., M.D., C.M.
Demonstrator in Paediatrics. 4966 Decarie Blvd.

F. M. VAN WAGNER, B.P.E. (Springfield).
Assistant Physical Director. 3549 Northcliffe Ave.

C. VILLAVICENCIO, M.D. (Chile).
Research Assistant in Neurology and Neurosurgery.
Neurological Institute.

PHILIP F. VINEBERG, M.A., B.C.L.
Assistant Professor of Economics and Sessional Lecturer in Commercial Law. 1535 Summerhill Ave.

NORMAN VINER, B.A., M.D., C.M.
Lecturer in Neurology and Neurosurgery. 1525 Bishop Street.

THELMA WAGNER, B.Sc., M.A. (New York).
Assistant Physical Director for Women. 3440 Shuter St.

A. H. WALKER.
Instructor in Horticulture. Macdonald College.

G. A. WALLACE, M.Sc.
Associate Professor of Electrical Engineering. 4134 Hampton Ave.

A. B. WALSH, B.Sc. (Agr.)
Registrar of Macdonald College. Macdonald College.

A. L. WALSH, D.D.S., F.A.C.D.
Dean of the Faculty of Dentistry and Professor of Dental Surgery.
Medical Building.

A. A. WARD, JR., A.B., M.D. (Yale).
Demonstrator in Neurology and Neurosurgery. Neurological Institute.

*C. V. WARD, B.A. (Bishop's), M.D., C.M., M.C.O.G. (Eng.), F.A.C.S.
Lecturer in Obstetrics and Gynaecology. 1374 Sherbrooke St. West.

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*On Active Service.

E. Russell Ward, D.D.S.
Demonstrator in Prosthetic Dentistry. 1538 Sherbrooke St. W.

R. Vance Ward, M.D., C.M., F.R.C.P. (C.).
Lecturer in Medicine and in Public Health and Preventive Medicine.
561 Cote St. Catherine Road.

T. Fred Ward.
Secretary of Macdonald College. Macdonald College.

H. G. I. Watson, B.A. (Toronto), M.Sc., Ph.D.
Assistant Professor of Physics. Physics Building.

Theo. R. Waugh, B.A. (Yale), M.D., C.M.
Associate Professor of Pathology. Pathological Institute.

Gordon Webber,
Instructor in Architectural Drawing.
Engineering Building.

Paul Weisz, B.Sc., M.Sc.
Carpenter Fellow in Zoology. Biological Building.

W. E. Whitehead, M.Sc.
Lecturer in Entomology. Macdonald College.

The Rev. Canon F. L. Whitley, M.A.
Honorary Lecturer in Religious Instruction. Macdonald College.

*F. W. Wiglesworth, M.D. (Man.).
Lecturer in Pathology. Pathological Institute.

A. L. Wilkie, B.A. (St.F.X.), M.D., C.M.
Assistant Professor of Surgery. 1374 Sherbrooke St. West.

F. A. H. Wilkinson, M.D., C.M., D.A. (R.C.P. & S., Eng.), F.I.C.A.
Lecturer in Anaesthesia. 406 Pine Ave., West.

W. L. G. Williams, M.A. (Oxon.), Ph.D. (Chicago), F.R.S.C.
Professor of Mathematics. Engineering Building.

N. T. Williamson, M.D., C.M., F.R.C.S. (C.).
Lecturer in Orthopaedic Surgery. Medical Arts Building.

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*On Active Service.

D. C. Wilson, M.D. (Toronto).
Teaching Fellow in Pathology. Pathological Institute.

C. A. Winkler, M.Sc. (Man.), Ph.D. (McGill), D.Phil. (Oxon.).
Associate Professor of Chemistry. 16 Easton Ave., Montreal West.

A. R. Winn, B.Sc., D.D.S.
Demonstrator in Orthodontia. 1240 Phillips Square.

F. M. Wood, B.Sc., M.A. (Queen's).
Associate Professor of Civil Engineering and Applied Mechanics.
Engineering Building.

William Dudley Woodhead, B.A. (Oxon.), Ph.D. (Chicago).
Hiram Mills Professor of Classics, Chairman of the Humanities Group of the Faculty of Arts and Science, and Chairman of the Department of Classics. 241 Ballantyne Ave. North, Montreal West.

E. M. Worden, M.D. (Tor.).
Demonstrator in Paediatrics. Children's Memorial Hospital.

E. Walter Workman, M.Sc., M.D., C.M.
Demonstrator in Anatomy. Medical Arts Building.

Charlton Lewis Wrenshall, M.Sc. (Sask.), Ph.D. (On leave of absence).
Assistant Professor of Chemistry. Macdonald College.

R. Percy Wright, M.D., C.M., F.R.C.S. (C.). (Returned from Active Service).
Lecturer in Oto-Laryngology. 1414 Drummond St.

V. C. Wynne-Edwards, M.A. (Oxon.), F.R.S.C.
Associate Professor of Zoology. 495 Prince Arthur St. West.

A. W. Young, M.D., C.M., F.R.C.P. (C.).
Assistant Professor of Neurology. 1390 Sherbrooke St. West.

Eva Younge, B.A. (Alta.), M.A.
Assistant in Sociology and Assistant to the Warden of the Royal Victoria College at Strathcona Hall. Strathcona Hall.

C. L. Yuile, M.D., C.M.
Assistant Professor of Pathology. Pathological Institute.

Greta Zinck, B.A. (Acadia).
Assistant to the Warden of the Royal Victoria College at McLennan Hall.
McLennan Hall.

RESEARCH FELLOWS AND RESEARCH ASSOCIATES.

RESEARCH FELLOWS
1944-45

HENRY C. BROWNING, B.Sc., Ph.D. (Bristol).
Research Fellow in Genetics.

KENNETH A. EVELYN, B.Sc., M.D., C.M.
Research Fellow in Physics.

JOHANNES HOLTFRETER, Ph.D. (Freiburg).
Research Fellow in Zoology.

JEAN LUNN, M.A., Ph.D.
Research Fellow in History.

MORITZ MICHAELIS, Ph.D. (Wurtzburg).
Research Fellow in Agricultural Chemistry.

HECTOR MORTIMER, M.B.Ch.B. (Aberdeen), F.R.C.S. (Ed.).
Research Fellow in Endocrinology.

STANLEY GEORGE SMITH, Ph.D.
Research Fellow in Genetics.

WILLIAM E. SWALES, B.V.Sc., Ph.D. (Tor.).
Research Fellow in Parasitology.

RESEARCH ASSOCIATES
1944-45

SAMUEL B. BAKER, B.Sc. (Sir George Williams College), Ph.D.
Research Associate in Chemistry.

JOSEPH A. F. GARDNER, M.A., (B.C.), Ph.D.
Research Associate in Chemistry.

IRVING LEVI, M.Sc., (Man.), Ph.D.
Research Associate in Chemistry.

CATHERINE F. C. MACPHERSON, B.Sc. (Mt. A.), M.Sc. (Dal.).
Research Associate in Bacteriology.

GEORGES MARIE CHARLES MASSON, M.V.D. (Paris), L. ès. Sc. (Montreal), Ph.D.
Research Associate in Anatomy.

LEONARD MITCHELL. M.A. (B.C.), Ph.D.
Research Associate in Chemistry.

DOROTHY OSBORNE, B.Sc., D. ès. Sc. (Montpelier).
Research Associate in Biochemistry.

JAMES M. PEPPER, M.A. (B.C.), Ph.D.
Research Associate in Chemistry.

DAVID SIMINOVITCH, M.Sc., Ph.D.
Research Associate in Agricultural Chemistry.

HUBERT EDMUND WOODWARD, M.Sc. (Sask.), Ph.D. (Pittsburg).
Research Associate in Biochemistry.

ABRAHAM ZUCKERMAN, B.Sc. (Agr.), Ph.D.
Research Associate in Chemistry.

UNIVERSITY SCHOLARS 1944-45

With dates of first award

Arts and Science

Leo Breitman 1943
Thomas Cassirer 1943
George C. Cree 1944
Heidi Eartly 1944
Seymour Friedman 1944
Lionel B. Goldfarb 1943
David Hubel 1943
Isadore Kalin 1944
Nora Magid 1942
Mary Mitham 1944
James Naiman 1941
Louis Nirenberg 1942
Donald Patterson 1944
David Rosen 1942
Gerald S. Stober 1944
Parr A. Tate 1944
Sylvia Van Straten 1942
John Waelbroeck 1944
Adolphe Wexler 1944

Engineering

Robert P. Cahn 1940
Ross M. Cooper 1944
William F. Corkran 1943
Leo. P. Gauthier 1944
Geoffrey W. Ince 1943
Curtis L. U. Knight 1941
Seymour Levine 1944
George Morganstern 1944
Howard K. Rae 1944
S. Douglas Smith 1943
John Stonehewer 1943
Geoffrey York-Slader 1942

Education

Allana Reid 1944

Medicine

Thomas I. Crawford 1944
James H. Darragh 1941
Ralph Druckman 1944
Louis Horlick 1944
T. P. B. Payne 1943
Harold Rosen 1941
H. C. F. Shatan 1942

Architecture

Sheila Baillie 1942

Law

Ruth L. Hill 1944

A BRIEF HISTORY OF THE UNIVERSITY

In 1813 the Hon. James McGill, a leading merchant and prominent citizen of Montreal, died and left in his will a property of forty-six acres and a sum of £10,000 to the already existing Royal Institution for the Advancement of Learning upon condition that the latter erected "upon the said tract or parcel of land, an University or College, for the purposes of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

Owing to a lack of funds and persistent opposition the complete University, which had been planned by the Royal Institution, was not built, but after years of litigation and effort, the University of McGill College was opened in 1829 with what remained of James McGill's legacy as its endowment; and teaching then started in the Faculties of Medicine and Arts. The Medical Faculty grew steadily, but the Faculty of Arts had a most delicate infancy, and by the middle of the century was still scarcely alive. In 1852 an amended Charter was secured and a new era of progress and success began with the appointment in 1855 of Sir William Dawson as Principal, a position which he held for thirty-eight years.

Since 1855 the University has grown vigorously, dividing itself into further faculties, and in 1907 establishing Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal, as a separate residential college for Agriculture, Household Science, and the School for Teachers.* This general development was greatly facilitated by the generosity of Sir William Macdonald, who gave the University a Physics Building, a Chemistry and Mining Building, and a new Engineering Building, in addition to the college named after him and mentioned above.

A history of the University, "McGill and its Story," by Professor Cyrus Macmillan, is published by the Oxford University Press, Toronto.

GOVERNMENT OF THE UNIVERSITY

McGill University is a Corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor-General as Visitor.

The *Governors* of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec, part of the official organization of the Province, but completely self-governing. In them is vested the management of finances, the appointment of professors, and other important duties. Three of the Governors are elected by the members of the Graduates' Society

*The School for Teachers has moved to Montreal for the duration of the war.

and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is *ex officio* Chancellor of the University.

The *Principal* is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member). He also holds the office of Vice-Chancellor of the University.

The *Senate* consists of the Chancellor, the Principal, the Deans of the Faculties, the Warden of the Royal Victoria College, the Director of the School for Teachers, and the four Group Chairmen of the Faculty of Arts and Science, all *ex officio;* five Governors elected by the Board, and eight professors elected by the various faculties. The Principal is Chairman of Senate which is the highest academic authority of the University and has control over admission, courses of study, discipline and degrees.

The carrying out of the regulations of Senate along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties and Schools.

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty-five miles from Montreal. It consists of the Faculty of Agriculture, the School of Household Science, and the School for Teachers.* All courses leading to the Bachelor's and Master's degrees are under the control of the Senate of McGill University; all the short term courses in agriculture, as well as the shorter courses in domestic science are under the direction of the Faculty of Agriculture, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. For further particulars see separate Announcement.

The Royal Victoria College is the Women's College of McGill University. For further particulars, see pages 95 and 96.

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least), are exempted from a half course in Arts and Science in each of the Third and Fourth Years or a whole course in either.

The United Theological College of Montreal.—Principal, Rev. George G. D. Kilpatrick, B.A., D.D. (on leave of absence), 3506 University St.

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*The School for Teachers has moved to Montreal for the duration of the war.

THE MONTREAL DIOCESAN THEOLOGICAL COLLEGE.—Principal, Rev. W. A. Ferguson, M.A., B.D., 3473 University St.

For Calendars and all necessary information, apply to the Principals of the Colleges.

AFFILIATION WITH OTHER UNIVERSITIES

Under certain conditions students of McGill University may be granted advanced standing in the Universities of Oxford, Cambridge, and Dublin. Particulars of these conditions may be obtained from the Registrar.

For universities affiliated with the Faculty of Engineering, see page 411.

McGILL UNIVERSITY
MONTREAL, CANADA

GENERAL INFORMATION
1944-45

ADMISSION TO THE UNIVERSITY

1. ENTRANCE REQUIREMENTS.

   The entrance requirements of the various faculties and schools of the University are given in the General Announcement, and in the separate announcements of these faculties and schools. These announcements may be obtained from the Registrar's Office.

2. APPLICATION FORMS.

   Application forms for admission to the faculties of Arts and Science (including the School of Commerce), Engineering, Medicine, and Dentistry, and to the School of Physical Education may be obtained from the Registrar's Office. Applications for admission to other faculties and schools should be made to the deans of the faculties or the directors of the schools concerned. All application forms give details of the certificates and records applicants must submit.

3. ADMISSION TO THE UNIVERSITY.

   The admissions policy of the University is definitely selective and no guarantee can be given that a student who has complied with the minimum entrance requirements will be admitted. Students, therefore, should never come to the University until they have received an official acceptance of their applications.

4. INQUIRIES

   The Registrar will be pleased to answer inquiries concerning the University and to give advice to anyone who contemplates applying for admission.

NATIONAL SELECTIVE SERVICE REGULATIONS

All university students are subject to the National Selective Service regulations of the Dominion Department of Labour. Under these regulations no student (man or woman) may remain at college if his work is unsatisfactory or if he fails to advance towards his degree. This applies to students in all faculties and schools. In addition, students in Arts (B.A.), General Science, Pre-Medicine, Pre-Dentistry, Household Science, and Law are required in their first year at college to be in the upper half of their class as determined by the final university examinations. Men students liable to military service who are placed in the lower half are immediately reported to the Divisional Registrar. They may continue their course only by special permission of National Selective Service. Students in the lower half who are not liable to military service will be reported to the University Senate and may be required to leave the University. Full details of these regulations will be published at the beginning of the session.

IMMIGRATION

All students entering Canada to attend courses at the University should obtain from the Registrar's Office an official letter of acceptance and should present this to the immigration authorities at the port of entry.

British Students.

British students do not require passports to enter Canada but may require them if they wish to return and they are therefore advised to obtain them before leaving for Canada.

American Students.

American students do not need passports. They must, however, bring with them evidence of their American citizenship such as their birth certificate, baptismal certificate, naturalization certificate, or passport. They should register on arrival with the American Consulate General. Students coming from the United States of America who are not citizens of that country should carry evidence that they are legally in the United States, and prior to their return should obtain a re-entry permit from the American Immigration Department.

Other Students.

All other students should carry passports.

Reference: Department of Mines and Resources, Memorandum No. 595335—Imm.

HEALTH SERVICE

Medical Examination.

To promote their physical welfare all men and women students in the University are required to be medically examined at the beginning of every session. There are no exceptions to this rule.

The medical examinations are conducted daily for a period of about two weeks at the beginning of the session. Subsequently special periods may be arranged for students who register late. The hours of all examination periods are announced on the notice boards throughout the University at the beginning of the Session.

Any student who fails to be examined during the regular period of medical examinations is fined $5.00. If the student does not report for examination during the week following the regular period, the fine is increased to $10. If after another week he has not reported, he is suspended from the University.

Re-examinations are held frequently throughout the session for those students who are of low category or who are suffering from physical disability.

Students may take part in competitive athletics or other forms of exercise only if considered physically fit to do so by the University's medical officers.

VACCINATION.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years. Failing this, students must be vaccinated at once in a manner satisfactory to the medical examiner.

The penalties for non-compliance with this regulation are those stated above for the medical examination.

HEALTH SERVICE.

The object of the Department of Physical Education is to make and keep the students physically fit. To this end numerous voluntary activities are organized so that every student may participate in some form of physical activity and recreation.

Provision is made by the Department for the care of the health of undergraduates *during the session* but not during vacations. If a student's admission to hospital is requisitioned for by the Department, but not otherwise, one half of all public ward charges is paid by the University, provided that the total obligation assumed by the University does not exceed $125 in any one session for any one student. Should a student desire private accommodation, the difference in cost must be borne by him. A student who receives treatment by a private practitioner without having first obtained a requisition form from the Department, must bear all expenses involved. A student who has received medical attention as the result of sickness or injury must be declared fit by the University Medical Officer before he may resume participation in University physical activities.

The University's contribution towards hospital expenses is made only when the illness or other condition requiring hospital treatment was not present or was unknown or undetected at the time of admission.

The University is not responsible for damages of any kind resulting from accidents or athletic injuries which may occur or for the medical or hospital expenses incurred by any person suffering an accident or athletic injury. If, however, in any such case, a recommendation is made in writing by the Department of Physical Education, but not otherwise, the University may pay the whole or such portion of the medical or hospital expenses as is covered by such written recommendation. All cases of athletic injury requiring medical treatment or hospital accommodation must be reported immediately to the Director or the University Medical Officer. In cases of emergency, the Royal Victoria Hospital or the Montreal General Hospital accepts cases but these must be reported to the Department of Physical Education, as well as to the Athletics Manager, within forty eight hours.

No dental treatment is supplied by the University.

A leaflet concerning health service and the general work of the Department is given to every student at the beginning of the session.

Partial students are entitled to the above services on payment of a special fee.

BOARD AND RESIDENCE

I. For Men

Douglas Hall.

Douglas Hall, the University residence for men, was opened in September, 1937. It is built on the staircase plan, each student normally having his own study-bedroom and sharing a sitting room with two other men, the three study-bedrooms and the sitting room forming a self-contained and separate suite. There are also a limited number of separate study-bedrooms. Meals, under the supervision of a qualified dietitian, are served in the attractive refectory and residents have in addition the use of adequate common rooms, play rooms, etc. Application forms may be obtained from the Warden's Office.

Hall Fees, Including Board and Residence:

Engineering	$435.00
Arts, Science, Commerce and Law	475.00
Dentistry and Medicine	550.00

One half the fee is payable at the beginning of the session, and the balance on February 1st.

Students who are in residence for any additional period are charged extra at the rate of $2.00 per day.

Lodgings.

Before the opening of the session each year a list of Approved Lodgings which have been inspected by a representative of the University is issued by the Lodgings Committee. This list which gives details of rooms, meals, prices, etc., may be consulted in the Registrar's Office, the Students' Union, and other University Buildings. The list is not sent by mail.

The cost of board and lodging in approved rooms varies from $50 to $75 per month. Separately, good board costs from $35, and a room from $20 upwards per month.

Board is furnished in the McGill Union at low rates.

Board and lodging for men may also be obtained in the Diocesan College, which is affiliated with the University.

II. For Women

THE ROYAL VICTORIA COLLEGE

The present building of the Royal Victoria College was erected in 1899 under the terms of the endowment created by the late Rt. Hon. Baron Strathcona and Mount Royal for the education of women at McGill University. The extension was built in 1930-31 and adjoining land has recently been acquired for the purpose of providing additional facilities.

All women undergraduates registered at McGill University are automatically members of the Royal Victoria College, whether in residence or not, and are required by the University to complete the supplementary registration forms of the Royal Victoria College.

The activities of all women students center in the College, which contains a separate library, gymnasium facilities, health offices and accommodation for the Women's Union, as well as residential quarters and the Warden's office.

The Warden has general supervision over all the academic activities of the women students. Under the University statutes, she is responsible for "the preservation everywhere of the good character and good name of the College". To this end she has jurisdiction over all women's extra-curricular activities.

RESIDENCE

Admission.

To be eligible for residence students must have fulfilled all the entrance requirements of McGill University, have been officially accepted for a full course leading to a degree or diploma and have complied with the health regulations (see paragraph on health).

Admission to residence is based upon scholarship, character, health and general promise.

Application.

Application forms may be secured either from the Registrar's Office of the University or from the College, and when completed should be addressed to the Warden, Royal Victoria College, McGill University, Montreal. It is to the candidate's advantage to make application early and in any case by May 15th. (Students should not await the results of their matriculation examinations before applying.) While the date of application is not considered in the selection of candidates, rooms are assigned to those accepted in the order in which forms are received.

Residences.

The College has accommodation for 125 students only, but residence may be available at Strathcona Hall, a residence building one block west of Royal Victoria College on Sherbrooke Street, and at McLennan Hall on Ontario Avenue. Strathcona Hall in normal times houses the Student Christian Movement of McGill University, but for the duration of the

war has been taken over by the University to house the School for Teachers, as part of the arrangement regarding the accommodation of the Canadian Women's Army Corps at Macdonald College. Any rooms in Strathcona Hall not required for the School for Teachers are available for women students. McLennan Hall, formerly the home of Miss Isabella C. McLennan, and recently donated by her to the University, is within 10 minutes walking distance of the College. Breakfast is served at the Hall and other meals at Royal Victoria College.

Opening and Closing of Residences.

Residence for new students in Arts, Science, Commerce, and Engineering opens on Wednesday, September 27th, when the mid-day meal is the first to be served. All women students new to the University should arrange to be in residence as from this date.

Residence opens for returning students on the first day of registration, September 29th. *Students of the three upper years will not be admitted before this date.*

All students except seniors are expected to leave in May within 48 hours of their last examination, seniors by the day after Convocation.

Rooms and Furnishings.

Students resident in Royal Victoria College are provided with a single room which is furnished with the following: couch bed, bedding and linen (2 blankets, pillow, sheets, pillow cases, bath towels, face towels), muslin curtains, small rug, bureau, desk, bookcase, chairs, waste-basket, and study lamp. Couch coverings and bureau scarves are not provided.

In Strathcona Hall there are 42 single rooms and 9 double rooms, each furnished with couch bed, bureau, desk, bookcase, chair, waste-basket, study lamp and blankets (3). Sheets, pillow cases, towels, couch covering, bureau scarves, and curtains are not provided.

At McLennan Hall the rooms are large and accommodate 2 or 3 students each, except for 2 single rooms. The furnishings include couch beds, bedding and linen (2 blankets, pillow, sheets, pillow cases, bath towels, face towels), bureaus, desks, bookcases, chairs, waste-baskets, and study lamps. Couch coverings and bureau scarves are not provided.

Rates.

The charge for board and residence in Royal Victoria College is $450, and covers the period of the University session (Arts and Science) exclusive of the Christmas holiday. Students who are in residence for any additional period for purposes of instruction, practice teaching, or examinations are charged extra at the rate of $2.00 per day.

The charges for board and residence in Strathcona Hall are as follows:

Arts, Science, Commerce and Engineering	$310
Library Science	$345
Graduate Nurses—Regular	$350
Graduate Nurses—Public Health	$395

A charge of $10.00 per week will be made for additional periods.

The charge for board and residence at McLennan Hall is $375 for the University session (Arts and Science) exclusive of the Christmas holiday. A charge of $12.00 per week will be made for any additional periods.

ROOM DEPOSITS.

A deposit of $20.00 is necessary in order to reserve a room for the next session and returning students should file a room application and make the deposit not later than June 1st.

The deposit will be refunded to any student who withdraws from residence before September 1st.

Rooms are not reserved for students whose standing at the end of the session does not entitle them to proceed to the next year.

RESIDENCE OUTSIDE THE COLLEGE.

Students not residing with their parents or guardians should apply for residence in the Royal Victoria College or Strathcona Hall or McLennan Hall or consult with the Warden with regard to living outside. A list of approved boarding houses with details of rooms, prices, etc., may be consulted at the Royal Victoria College. All women students living out of residence must obtain the Warden's written approval of their living arrangements and no student may change her lodging without the written consent of the Warden.

No sanction can be given to establishments of students in apartments or elsewhere unless such households are presided over by a parent or other responsible person approved by the Warden.

There is accommodation for meals at both Royal Victoria College and Strathcona Hall for a limited number of students in lodgings.

HEALTH.

The health of the resident students is in charge of the Residence Physician, Dr. R. H. M. Hardisty, and the Medical Health Officer for Women, Dr. Lyla Brown, who are assisted by the resident nurse.

No student who has an infectious illness or who comes from a house in which there has been an infectious illness may enter or return to the College unless the regulations of the Provincial Department of Health are observed. In all such cases the Warden must be notified and official consent secured. All students entering the University for the first time are required according to Provincial regulations to present a certificate or other satisfactory evidence of successful vaccination within seven years, or of insusceptibility to vaccine within five years.

FEES

I. University Fees

These fees include all the regular charges of the University for tuition, health service, registration, libraries, laboratories, physical education, sports, games, and graduation. The only additional fees are (1) Caution Money which is returnable (*see page 98*) and (2) the Students' Society Fee (*see page 98*).

Full-Time Regular Students.

Arts		$230.00
Science		250.00
Engineering		275.00
Medicine (British students)		375.00
Medicine (Non-British students)		475.00
Dentistry (British students)		325.00
Dentistry (Non-British students)		365.00
Law		250.00
Music		225.00
Library School		170.00
Commerce		250.00
Graduate Faculty	145.00	165.00*
School of Physical Education		215.00
School for Graduate Nurses		165.00
Physiotherapy		250.00

*The higher fee if laboratory courses are taken.

Conditioned Students.

Special fee for an additional course repeated or substituted (one full course or two half courses) $10.00

Limited Undergraduates in the Faculty of Arts and Science.

First and Second Years, per course	$55.00
Other years, per course	65.00

Partial Students.

Per hour of instruction per week for a full course:—

Arts and Science	$20.00
Commerce	20.00
Engineering	10.00

The maximum fee for a partial student is the full undergraduate fee.

Information concerning the fees payable by partial students taking other courses may be obtained from the Bursar's office.

Partial students pay $5.00 for Athletics and are entitled to use the outdoor facilities, tennis courts, rinks, etc. If they desire the full athletic and health service privileges of a regular student the fee payable is $20.00. Such students must be medically examined at the time of registration.

Partial students who pay the full undergraduate fee are entitled to the use of the Student Health Service and all facilities of the Department of Physical Education enjoyed by regular students.

PAYMENTS BY INSTALMENTS

All fees may be paid in two instalments, one at the beginning of the session and one in January. In such cases the fees stated above are increased by an instalment fee of Five Dollars.

II. SPECIAL FEES

Late registration (first week) extra	$ 5.00
Late registration (second week) extra	10.00
Late payment fee (after specified date)	2.00
Fine for late medical examination (*see page 92*)	5.00 or 10.00
Graduation *in absentia*	10.00
Duplicate diploma	10.00
Certified copy of student's record	1.00
Additional copies (at same time)	.50
Certificate of exemption from Matriculation	2.00
Supplemental examinations, each paper	10.00
Rental of microscope (*for students in Dentistry*)	7.50

McGill graduates and graduates of other Universities may use the University Library on payment of an annual fee of $5.00.

III. CAUTION MONEY

Every student is required to make a deposit of $10 as Caution Money to cover damage to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session. Students in the Graduate Faculty taking Chemistry make a deposit of $20.00.

IV. STUDENTS' SOCIETY FEES

An annual fee of $10 is payable by all men undergraduates and an annual fee of $8 is payable by all women undergraduates for the support of student organizations.

Medical students pay an additional $2.00 for the Medical Journal.

The men's fee is distributed as follows: McGill Union $3.50; McGill Daily $1.50; Students' Executive Council $4.00; Undergraduate Society $1.00.

The women's fee is distributed as follows: Women's Union $2.50; McGill Daily $1.50; Students' Executive Council $4.00.

Fees for the use of the gymnasium, the rinks, and tennis courts, and free admission to all home games of University teams are included in the University Fees given on page 98.

GENERAL REGULATIONS

1. Fees are due and payable at the Bursar's Office at the beginning of the session in September or October, and the second instalment is payable in January. For exact dates see the announcements of the separate Faculties.
2. Domicile in general determines whether a student pays the British or the Non-British fees in Medicine and Dentistry. A student who is uncertain which rate he is required to pay should consult the Registrar.

Further details concerning fees in the Faculty of Graduate Studies and Research are given in the Announcement of that faculty.

REGULATIONS CONCERNING REMISSION OF FEES TO STUDENTS WHO LEAVE THE UNIVERSITY DURING THE COURSE OF THE ACADEMIC YEAR.

1. In the case of students who, in spite of the fact that they leave the University before the end of the academic year, receive full credit for the year towards their degree, there shall be no refund of fees.
2. In the case of students who leave during the academic year and do not receive credit beyond the period of their attendance, the fees shall be remitted on the following basis:
   (a) In those Faculties where the academic year is divided into two terms, half of the annual fees shall be remitted to a student who leaves prior to the beginning of the second term.
   (b) In those Faculties where the year is divided into three terms, one-third of the fees shall be returned for each term that begins after the departure of the student.
3. No fees shall be refunded for any term during which the student has attended classes, even though he leaves before the term has finished.
4. Board and residence fees are payable for the full academic year and shall not be refunded.
5. Students' Activities fees shall not be refunded.

EXPENSES

It will be seen that each student pays annually three fees (1) his inclusive University fee (2) a Student's Activity fee (3) a caution money deposit. There are no other regular fees and the only extras are for late registration, for graduation *in absentia*, etc., as listed above. Consequently the expenses of a student may be estimated by adding these three fees and the cost of board and lodging (*see pages 94 to 96*). Books are necessarily a variable expense, but probably $30 a year would be about their average cost in Arts and Science. Personal expenditure upon clothes, amusements, etc. is still more variable and no useful estimate is possible.

PART-TIME EMPLOYMENT

The Students' Council runs an Employment Agency which helps students to obtain summer work and, when possible, part-time work during the session. Students taking a regular degree course generally have insufficient leisure to make heavy part-time work during the term advisable, and they are recommended not to rely upon earning any money while actually at college.

WAR SERVICE TRAINING

Military training of men is offered at the University in the Canadian Officers Training Corps (Army), the University Air Training Corps (Royal Canadian Air Force), and the University Naval Training Division (Royal Canadian Navy).

Every able-bodied male student in the University is required to take military training with one of the three corps or to obtain a written exemption from the Secretary of the University Committee on War Service Training. There is a penalty of $5 for failing to apply for this written exemption before a date which is announced at the beginning of the session.

Citizens of certain countries and men holding reserve commissions in the armed forces of the United States are not required to train but must get a written exemption. Full instructions concerning military training are issued at the beginning of the session.

WAR SERVICE PROGRAMME FOR WOMEN

A voluntary war service programme for women has been organized under a student committee. Full details will be given to all women students at the beginning of the session.

SPORTS FOR MEN

Normally there is organized competition with other Canadian and American Colleges in sixteen or seventeen different sports, but intercollegiate athletics have been suspended for the duration of the present war. In their place the University has organized a wide programme of intra-mural competition and voluntary games. The Sir Arthur Currie Memorial Gymnasium, opened in 1939, provides accommodation for many indoor activities, while Mount Royal in Montreal, and the Laurentian Mountains north of Montreal, provide excellent skiing country. A student in good health thus has ample opportunities for exercise and pleasant recreation.

SPORTS FOR WOMEN

For women students there is a wide choice of voluntary sports and recreations including archery, basketball, dancing, gymnastics, skating, skiing, swimming and tennis. Special care is taken that no student undertakes any exercise for which she is physically unsuited.

GOVERNMENT GRANTS TO MEN AND WOMEN RETURNING FROM ACTIVE SERVICE

The following summary of grants made under the Post Discharge Re-Establishment Order, P.C. 7633, has been made by the Federal Department of Pensions and National Health:

UNIVERSITY TRAINING

I. UNDERGRADUATE—PARA. 8, P.C. 7633.

The Minister has authority to approve training, including maintenance grant and fees—together with appropriate allowances for dependents—to any discharged person who has the aptitude and inclination and who:

(*a*) has been regularly admitted to a university before his discharge and resumes within one year and three months after discharge a course, academic or professional, interrupted by his service, or

(*b*) becomes regularly admitted to a university and commences any such course within one year and three months after his discharge; or

(*c*) because of ill health or because his admission to the university has been conditional upon his fulfilling some additional matriculation requirements or for any other good reason shown to the satisfaction of the Minister, delays resumption or commencement of such course beyond the aforementioned periods.

The opportunity for university training is governed by the length of service. Where progress is satisfactory, the assistance may be continued for as many months, in university, as the man served in the Forces. If the student's progress and *attainments* in his course are such that the Minister deems it in his interest and in the public interest, the payment of the grant may be extended beyond the period of service to permit the man to complete his course.

However, the grant shall not be continued to any such person who fails in more than two classes or subjects in any academic year, nor to any such person who having failed in either one or two classes or subjects also fails in either or both supplementary examinations next offered by the university in such classes or subjects.

NOTE: "*Attainments*" means unconditioned standing in the top 25% (first quartile) of his class on the final examinations on the full work of the year next preceding the year in which his period of entitlement expires.

II. POST-GRADUATE—PARA. 9, P.C. 7633.

In case any discharged person

(*a*) *has entered upon a post-graduate course, either academic or professional, in a university before enlistment, or was about to do so at the time of his enlistment,* or having completed his under-graduate course in a university after his discharge, enters upon a post-graduate course as aforesaid, and

(*b*) resumes or commences such post-graduate course within

i. One year from his discharge, or

ii. one year from the commencement, next following his discharge, or such course in such university, if his discharge precedes such commencement by not more than three months, or

iii. in case of a discharged person who completes his under-graduate course after his discharge, as soon as may be after such completion,

if the Minister having considered such person's attainments and his course, deems it in the public interest that he should continue such course, the Minister may, subject to the provisions of this Order, authorize the payment to such person of a maintenance grant and fees for as many months as he served. The assistance may be extended if the progress and *achievements* are so outstanding that it is in the public interest that the grant should be continued.

VOCATIONAL, TECHNICAL, OR OTHER EDUCATIONAL TRAINING—PARA. 6, P.C. 7633.

This makes provision for

(1) Resumption of education leading to high school graduation or matriculation.

(2) "Refresher" or "brush-up" courses in the professions.

The Minister has authority to approve training, including maintenance grant and fees—together with appropriate allowances for dependents—to any discharged person, provided he has the aptitude and inclination, where:

i. such person is pursuing vocational, technical or other educational training;

ii. the Minister approves such training as being training which will fit him or keep him fit for employment or re-employment or will enable him to obtain better or more suitable employment, and

iii. he makes progress in such training to the satisfaction of the Minister.

NOTE: This training is governed by the length of the man's service in the Forces, with a maximum of twelve months.

MAINTENANCE GRANTS

A "grant" under the provisions of paragraph 6, 8 or 9 of this Order means a grant at the rate of $44.20 per month or $10.20 per week in the case of an unmarried person and at the rate of $62.40 per month or $14.40 per week in the case of a married person, together with, in either case, such additional allowance for dependents, if any, as provided by sub-paragraph 3 hereof, and, in either case, reduced by such amount on account of any pension, wages, salary or other income such person may have received or be entitled to receive in respect of the period for which such grant is paid, as to the Minister seems right.

(Sub-para. 3) Additional allowance may be paid to or on behalf of the following dependents at the following rates per month and subject to the following conditions:

Additional allowance for person in lieu of wife	$18.20
Additional allowance for one child	12.00
Additional allowance for second child	12.00
Additional allowance for third child	10.00
Additional allowance for each subsequent child not in excess of three	8.00
Additional allowance for parent or parents	15.00

CALENDAR FOR THE SESSION 1944-45

1944

September 1st, Friday. Summer School in Mechanical Engineering begins.

September 5th, Tuesday. Students register in 1st and 2nd years of Medicine and Dentistry. Public Health Nurses report for field work. High School Diploma students report for training in the Department of Education. Last day for filing graduate theses for Autumn Convocation.

September 6th, Wednesday. Lectures begin in 1st and 2nd years of Medicine and Dentistry. Seminars and field work begin for High School Diploma students. School Certificate Examinations begin.

September 11th, Monday. Supplemental Examinations begin in Arts and Science, Commerce, Engineering and Architecture. Students register in the School of Physical Education. Architectural Sketching School begins. Conservatorium of Music opens for practical work.

September 12th, Tuesday. Lectures begin in the School of Physical Education.

September 14th, Thursday. Special Summer School in Surveying begins.

September 15th, Friday. Teaching and Supervision and Administration students report for field work in the School for Graduate Nurses.

September 16th, Saturday. Last day for reports on Ph.D. theses.

September 18th, Monday. Last day for reports on Masters' theses.

September 19th, Tuesday to September 23rd, Saturday. Final orals for Ph.D.

September 22nd, Friday, and September 23rd, Saturday. Students register in the Library School.

September 25th, Monday. Lectures begin in the Library School.

September 28th, Thursday. Lectures begin in Music.

September 28th, Thursday. Freshman Day, Faculty of Arts and Science.

September 28th, Thursday, to September 30th, Saturday. Students register in Law.

September 29th, Friday, and September 30th, Saturday. Students register in Arts and Science, Commerce, the School for Graduate Nurses, and the School of Physiotherapy.

September 29th, Friday. All students register in Engineering and Architecture.

October 2nd, Monday. Lectures begin in Arts and Science, Commerce, Engineering, Law, Agriculture, Household Science, Graduate Studies and Research, the School for Graduate Nurses, and the School of Physiotherapy.

October 3rd, Tuesday. Last day for receiving candidates' applications and Sessional registration forms in the Dean's Office, Faculty of Graduate Studies and Research.

October 6th, Friday. Founder's Day. Convocation.
(James McGill born October 6th, 1744, died December 19th, 1813.)

*.....Thanksgiving Day. No lectures.

October 21st, Saturday. Last day for registration and payment of fees in the Faculty of Graduate Studies and Research.

October 28th, Saturday noon. Last day for handing in summer essays and submitting certificates regarding summer employment in the Faculty of Engineering.

December 1st, Friday, to December 9th, Saturday. Examinations in French and German for Ph.D. students.

December 13th, Wednesday. First term ends in the Library School.

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*Thanksgiving Day will be a University Holiday. The date will be proclaimed later by the Dominion Government.

December 18th, Monday, to December 20th, Wednesday. Examinations in the Library School.

December 20th, Wednesday. Last day of lectures in all Faculties and Schools.

1945

Janurary 3rd, Wednesday. Lectures resumed in Medicine, Dentistry, Law, Graduate Studies and Library School.

Januray 3rd, Wednesday, to January 6th, Saturday. First term examinations in Arts and Science, Commerce, Engineering, Architecture, Physical Education, and the School for Graduate Nurses.

January 4th, Thursday. Lectures resumed in Music.

January 6th, Saturday. First term ends in Law.

January 8th, Monday. Second term begins in Arts and Science, Commerce, Engineering, Architecture, Law, Physical Education, and the School for Graduate Nurses.

February 10th, Saturday. Founder's Day at Macdonald College. (Sir William Macdonald born February 10th, 1831, died June 9th, 1917.)

March 22nd, Thursday, to March 29th, Thursday. Library School trip.

March 30th, Friday, to April 2nd, Monday (inclusive). Easter vacation.

April 6th, Friday. Lectures end in all years of Engineering and Architecture.

April 11th, Wednesday. Examinations begin in all years of Engineering and Architecture.

April 21st, Saturday. Last day for filing Ph.D. theses. Lectures end in all Faculties and Schools except Medicine, Dentistry, the Library School, and Music.

April 25th, Wednesday. Last day for filing Masters' theses not involving experimental work. Examinations begin in the Theory of Music.

April 26th, Thursday. Examinations begin in Arts and Science, Commerce, Law, Physical Education, Agriculture, Household Science, and the School for Gradute Nurses.

May 3rd, Thursday. Practical examinations begin in Music.

May 4th, Friday. Examinations begin in Higher Theoretical Music. Lectures end in the Library School.

May 5th, Saturday. Lectures end in Music. Last day for filing Masters' theses involving experimental work.

May 9th, Wednesday. Examinations begin in the Library School.

May 10th, Thursday. Last day for reports on Ph.D. theses and for reports on graduate examinations.

May 12th, Saturday, to May 19th, Saturday. Final orals for Ph.D.

May 14th, Monday, to May 25th, Friday. Practice work in the Library School.

May 16th, Wednesday. Last day for reports on Masters' theses.

May 30th, Wednesday. Convocation.

June 18th, Monday. School Certificate Examinations begin.

McGILL UNIVERSITY

MONTREAL



GENERAL ANNOUNCEMENT

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ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal and Vice-Chancellor.....F. Cyril James, Ph.D., D.C.L. LL.D. Docteur de l'Université (Montreal)
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.
Librarian.....G. R. Lomer, M.A., Ph.D., F.L.A.
Warden of the Royal Victoria College.Muriel V. Roscoe, M.A., Ph.D.
Warden of Douglas Hall.....R. D. Maclennan, M.A.

FACULTY OF ARTS AND SCIENCE

Dean.....Hon. Cyrus Macmillan, M.A., Ph.D., M.P.
Director of the School of Commerce..E. F. Beach, M.A., Ph.D.

FACULTY OF MEDICINE

Dean.....J. R. Fraser, M.D., C.M., F.R.C.S. (C), F.A.C.S., F.R.C.O.G.
Secretary.....J. F. McIntosh, B.A., M.D., C.M.

FACULTY OF ENGINEERING

Dean.....J. J. O'Neill, M.Sc., Ph.D., F.R.S.C.
Secretary.....R. DeL. French, B.Sc., C.E.
Director of the School of Architecture..John Bland, B.Arch., A.R.I.B.A.

FACULTY OF DENTISTRY

Dean.....A. L. Walsh, D.D.S.

FACULTY OF MUSIC

Dean.....Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.
Vice-Director and Secretary of the Conservatorium.....R. de H. Tupper.

FACULTY OF LAW

Dean.....C. S. Le Mesurier, K.C., B.A., B.C.L.

Secretary.....John P. Humphrey, B.Com., B.A., B.C.L.

FACULTY OF GRADUATE STUDIES AND RESEARCH

Dean.....D. L. Thomson, M.A., Ph.D., F.R.S.C.

DEPARTMENT OF PHYSICAL EDUCATION

Director.....A. S. Lamb, B.P.E., M.D.

University Medical Officer.....Frank G. Pedley, M.C., B.A., M.D., C.M., Dr. P.H.

Physical Director for Women.....Iveagh Munro, M.S.P.E., B.Sc., M.A.

Athletics Manager.....Hay Finlay, Dip. M.S.P.E.

SCHOOL FOR GRADUATE NURSES

Director.....Marion Lindeburgh, O.B.E., R.N., M.A.

MACDONALD COLLEGE

Vice-Principal of Macdonald College and Dean of the Faculty of Agriculture.....W. H. Brittain, M.S. in Agr., Ph.D., F.R.S.C.

*Dean, School for Teachers**.....Sinclair Laird, M.A., B.Phil., D.Paed.

Director, School of Household Science....Margaret S. McCready, B.A.

Secretary.....T. Fred. Ward.

Registrar.....A. B. Walsh, B.Sc. (Agr.).

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*This School has been moved to Strathcona Hall, 772 Sherbrooke St. W., for the duration of the War.

McGILL UNIVERSITY

A BRIEF DESCRIPTION

McGill University, founded under a bequest of the Hon. James McGill, a prosperous Montreal merchant who died in 1813, was established as a university by Royal Charter in 1821. It is privately endowed, the trustees of its funds being the Board of Governors who constitute "The Royal Institution for the Advancement of Learning".

The University has eight faculties and six schools. Particulars of these are given on pages 112 to 117. Seven of the faculties are situated in Montreal where the University Campus lies on the lower slopes of Mount Royal, the hill from which the city takes its name. Macdonald College at Ste. Anne de Bellevue, about twenty-five miles from Montreal, is an incorporated College of the University, and houses the Faculty of Agriculture and the School of Household Science. The School for Teachers has been moved from Macdonald College to Montreal for the duration of the War.

McGill University is undenominational and has now for many years been co-educational in most of its faculties and schools. Admission is definitely selective, the number of students accepted into each faculty being limited. In the 1943-44 session the number of men students studying for either degrees or diplomas was 1871 and the corresponding number of women students was 1042. These students are drawn from every province of Canada and from many other countries, the connexions with Great Britain, the West Indies, and the United States naturally being strong. At present there are in residence at the University about 16 students from Great Britain and 191 from the United States.

The following pages are intended to give in a condensed form the preliminary information that a student who contemplates entering the University would require, together with the entrance requirements of the various faculties and a list of the certificates accepted. Details of the Junior and Senior School Certificate, the entrance Examination conducted by the University, are given in the School Certificate Announcement. Separate announcements of the several faculties and schools are also published and a list of these is printed on the inside of the front cover. There is also a pamphlet enclosed with this announcement which gives the fees in the various faculties and schools, a description of the University residences for men and women, an account of the Health Service, and a calendar of dates. The Registrar's Office will be pleased to send one or more of these announcements to anyone interested or to answer inquiries.

THE FACULTIES AND SCHOOLS OF THE UNIVERSITY

A Brief Outline With References

Announcements of these faculties and schools giving further details may be obtained from the Registrar's Office.

For fees see the Pamphlet of General Information enclosed with this announcement.

I. McGILL COLLEGE

(Faculty of Arts and Science)

See also page 118.

Degrees Offered: Bachelor of Arts (B.A.)
Bachelor of Science (B.Sc.)
Bachelor of Commerce (B. Com.)

Period of Resident Study in the Faculty: Four years from Junior Matriculation or three years from Senior Matriculation (see School Certificate Announcement pp. 136, 157).

Entrance Requirements: Junior Matriculation for admission to the First Year. Junior and Senior Matriculation with second-class standing for admission to the Second Year. For certificates recognized by the University see pages 124, 125. The entrance requirements for students of American Schools and for students from Great Britain are stated on pages 124, 125.

Application Forms: For application forms apply to the Registrar's Office.

Since the majority of students coming to the University for the first time enter the Faculty of Arts and Science, further details of this Faculty are given on page 118.

II. FACULTY OF MEDICINE

Degree offered: Doctor of Medicine and Master of Surgery (M.D., C.M.).

Diplomas offered: The Diploma in Public Health (D.P.H.). and the Diploma in Veterinary Public Health (D.V.P.H.).

Period of Study in the Faculty for the Degree: Four years.

Licence to Practise: An interne year or a further year of study is required before the University certifies that a graduate is entitled to take the qualifying examination of any of the licensing boards, so that the length of the full professional course is five years.

Entrance Qualifications: At least three years of university work are required and a complete B.A. or B.Sc. degree is preferred. This pre-medical work must include:—

Physics: One year of general college physics with laboratory work.

Biology: One year of general biology and zoology with laboratory work. (One year of Zoology will be accepted, but Botany alone is not sufficient.)

Chemistry: Two years.

(*a*) One full year's course of general chemistry with laboratory work.

(*b*) One full year's course of organic chemistry with laboratory work.

Students who are preparing for entrance to the Faculty of Medicine are advised that they should not choose subjects which properly belong to the medical course, but should devote their time to securing a thorough preparation in the fundamental scientific and humanistic subjects.

Students are strongly advised to make themselves familiar with the licensing regulations of the province or state in which they intend to practise and to take the necessary steps to become registered. The University requires Canadian students to register with the licensing body of their province before beginning their medical course.

Since the University can accept only a small percentage of those who apply, applications should be made to the Secretary of the Faculty of Medicine as early as possible and in no case after March 1st.

For further details and application forms apply to the Secretary of the Faculty.

III. FACULTY OF LAW

The course in the Faculty of Law is based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

Degree offered: Bachelor of Civil Law (B.C.L.).

Period of Study in the Faculty of Law: Three years.

Entrance Qualifications: Candidates who have completed at least two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty as degree students without examination. Other candidates must satisfy the Faculty that they possess an equivalent qualification. Candidates, however, who are proceeding to the Bar of the

Province of Quebec must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British university, and satisfy the Bar examiners that they have successfully completed "the regular course in philosophy" in an approved university.

Candidates for admission to the Notarial profession must be male British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English or French university.

Further information regarding admission to practice will be found in the Quebec Bar Act, 1925, R.S.Q., chap. 210 (as amended) and the Notarial Code, 1925, R.S.Q., chap. 211 (as amended).

IV. FACULTY OF ENGINEERING

Degrees offered: (1) Bachelor of Engineering (B.Eng.), in the Departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering. (2) Bachelor of Architecture (*See below*).

Period of Study in the Faculty: Four years.

Entrance Qualifications: First Year Arts and Science (B.Sc. course), *or* Senior Matriculation in English, Mathematics, Chemistry, Physics, and one of Biology, French, German, Greek, History, Latin, Spanish. Students should not contemplate entering the Faculty of Engineering unless they have more than average mathematical ability. The minimum requirements in this subject are stated in the School Certificate Announcement. page 158. For further details see the Announcement of the Faculty of Engineering.

V. SCHOOL OF ARCHITECTURE

(In the Faculty of Engineering)

Degree offered: Bachelor of Architecture (B.Arch.).

Period of Study in the School: Five years.

Commencing with 1944-45 the entrance requirements in Architecture will be identical with those of the Engineering courses (*see above*). The length of the course will be five years, the First Year being identical with the First Year in Engineering.

VI. FACULTY OF DENTISTRY

Degree offered: Doctor of Dental Surgery (D.D.S.).

Period of Study in the Faculty for the Degree: Four years.

Entrance Qualifications: At least two years in Arts and Science, including two years of lectures and laboratory work in Chemistry (inorganic and organic), and one year each of Physics and Biology.

To be qualified to practise in the Province of Quebec, a student must take at least the last year of this pre-dental work in a recognized English university in that Province.

VII. FACULTY OF AGRICULTURE

This faculty is housed in Macdonald College at Ste. Anne de Bellevue, twenty-five miles from Montreal.

Degree offered: Bachelor of Science in Agriculture, B.Sc. (Agr.).

Period of Study in the Faculty for the Degree: Four years.

For entrance qualifications, fees, and further details, see the Announcement of Macdonald College, which may be obtained from the Registrar, Macdonald College, P.Q.

VIII. FACULTY OF MUSIC

Degree offered: Bachelor of Music (B. Mus.).

Diplomas offered: Licentiate in Music (L. Mus.).
Associate in Music (A. Mus.).

Minimum period of study in the Faculty for the Degree: Three years.

For further details see the Announcement of the Faculty of Music.

IX. FACULTY OF GRADUATE STUDIES AND RESEARCH

Degrees offered: Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Commerce (M. Com.). Master of Civil Law (M.C.L.), Doctor of Philosophy (Ph.D.), Doctor of Civil Law (D.C.L.), Doctor of Music (D.Mus.).

For details consult the Announcement of the Faculty of Graduate Studies and Research.

X. SCHOOL OF HOUSEHOLD SCIENCE

In the Faculty of Agriculture

(Women Only)

This is a school within the Faculty of Agriculture.

Degree offered: Bachelor of Science in Home Economics [B.Sc. (H.Ec.)].

Period of Study for the degree: Four years.

Yearly fee for residents of Canada..... $100.00
" " for non-residents..... $125.00

Diploma courses in Household Science have been suspended for the period of the war.

For entrance requirements and other details see the Announcement of Macdonald College which may be obtained from the Registrar, Macdonald College, P.Q.

XI. THE LIBRARY SCHOOL

In the Faculty of Arts and Science

Degree offered: Bachelor of Library Science (B.L.S.).
Period of Study: One year.
Entrance Qualifications: Bachelor's degree.
For details see the Announcement of the Library School.

XII. SCHOOL OF PHYSICAL EDUCATION

In the Faculty of Medicine

(Women only)

Period of Study: Two years in the School leading to a diploma.

Entrance Requirements: First Year Arts and Science *or* Senior Matriculation, *or* the completion of the intermediate course in the School for Teachers.

Advanced Course: There is also an advanced course for students with a Bachelor's degree. For details see the Announcement of the School.

XIII. SCHOOL FOR GRADUATE NURSES

In the Faculty of Medicine

Diplomas offered in:

1. Teaching and Supervision in Schools of Nursing.
2. Public Health Nursing.

Advanced Diplomas offered in:

3. Administration in Hospitals and Schools of Nursing.
4. Administration and Supervision in Public Health Nursing.

Entrance Requirements: Junior Matriculation or its equivalent, and graduation from an approved school of nursing.

For the advanced courses satisfactory professional experience is required.

For details see the Announcement of the School.

XIV. SCHOOL OF PHYSIOTHERAPY

In the Faculty of Medicine

Period of Study: Two years in the School and an interneship leading to a diploma.

Entrance Requirements: Senior Matriculation or its equivalent.

For further particulars see the separate Announcement of the School.

XV. FRENCH SUMMER SCHOOL

In the Faculty of Arts and Science

A residential summer school with an Old-Country French Staff. Approximate dates 29th June to 9th August.

Inclusive Fee: $180.00.

For special announcement apply to the Registrar's Office.

XVI. TRAINING OF TEACHERS

The Department of Education offers a one-year course to graduates of approved universities who wish to be teachers. Under certain conditions those who complete this course may qualify for the High School Diploma of the Province of Quebec. These conditions are given in the Announcement of the Faculty of Arts and Science. This course under certain conditions (see Announcement of the Faculty of Graduate Studies and Research) may lead later to an M.A. degree in Education.

For details of courses in the School for Teachers, leading to Elementary and Intermediate Diplomas, see the Announcement of Macdonald College.

APPLICATION FOR ADMISSION TO ALL FACULTIES

Application forms for all years in the Faculty of Arts and Science, and for the First Year in Engineering, Medicine, and Dentistry may be obtained from the Registrar's Office. Application for admission to other faculties or years should in the first instance be made by letter to the Registrar.

ADMISSION FROM OTHER UNIVERSITIES

A student of another university applying for advanced standing or for exemption from any subject or subjects which he has already studied, must submit with his application a Calendar of the University in which he has previously studied, a certified copy of his academic record, and a confidential report from an officer of instruction or administration who is familiar with his work.

SCHOLARSHIPS AND BURSARIES

Details of the University Entrance Scholarships and of other scholarships, bursaries, and loan funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

THE FACULTY OF ARTS AND SCIENCE

For further particulars see the separate announcement of the Faculty.

The undergraduate work of the University in the Humanities, in Social Studies, in the Biological and Physical Sciences, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science.

For administrative purposes the School of Library Science (*see page 116*) is also a part of this faculty.

WOMEN STUDENTS.

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men, but in the more elementary courses they are usually taught in separate classes.

AGE OF ADMISSION.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

ENTRANCE REQUIREMENTS.

I. (1) For admission to the First Year of the B.A. courses a candidate must pass in each of the following papers in the University's Junior School Certificate and obtain an average of 60% on the examination as a whole.

No. of Papers	Subject
2	English.
1	History (General *or* British).
2	Latin or Greek.
2	French (Elementary *and* Advanced) *or* both papers in one of Latin; Greek; German; Spanish.
2	Elementary Algebra and Elementary Geometry.
1	One of the following: Biology; Botany; Chemistry; Drawing; Geography; (Canadian History); Physics; Music; Intermediate Algebra; Intermediate Trigonometry; *or* A foreign language not already chosen (the average of the two papers in a foreign language is counted).
10	

(2) A candidate must pass the following papers in the University's Junior School Certificate Examination and obtain 60% upon the examination as a whole.

No. of Papers	Subject
2	English.
1	History (General or British).
2	French (Elementary *and* Advanced), or German (both papers).
2	Elementary Algebra.
1	Elementary Geometry.
1	One of the following: Biology; Botany; Chemistry; Physics.
2	Either Latin or Spanish or French or German (if not already chosen) or any two of the following papers not already chosen: (a) Intermediate Algebra.* (b) Intermediate Trigonometry.* (c) Biology or Botany. (Biology and Botany may not both be chosen). (d) Chemistry. (e) Geography. (f) Physics. (g) Canadian History, Music or Drawing. (Music and Drawing may not both be chosen).
—	
10 papers.	

(3) Admission to courses leading to B.Com. degree.

Either (1) or (2) above.

NOTE—The requirement of Senior Matriculation for admission to the First Year of the Commerce courses announced in 1941 will not be put into effect during the present war.

For a list of examinations accepted as equivalent to the University's own entrance examinations see page 122.

II. For admission to the Second Year of the Faculty of Arts and Science, the following subjects in the University's Senior School Certificate are required:

(1). ARTS COURSES

For admission to the Second Year of the B.A. courses.

English.

Latin or Greek.

Mathematics* or a third foreign language.

Any two of the following:—

1. History.
2. Latin or Greek (the one not already chosen).
3. French.
4. German.
5. Spanish.
6. Science (Physics or Chemistry or Biology).
7. Music.

*Two papers: one in Algebra and one in Trigonometry.

Candidates may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Certificate Examination or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the Junior Certificate Examination, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

Candidates who wish to enter the Faculty of Medicine at the end of the Third Year of the B.A. course must take Mathematics.

(2). SCIENCE COURSES

For admission to the Second Year of the B.Sc. courses.

Chemistry.
English.
French or German.*
Mathematics.**
Physics.

(3). COMMERCE

For admission to the Second Year of the B.Com. courses.

English.
Mathematics.
French or German or Spanish or History.
Accountancy.
Any one of the following:—

1. Latin or Greek.
2. French or German or Spanish (one not already chosen).
3. Physics or Biology or Chemistry.
4. History (if not already chosen).

III. *For admission to the First Year of the Faculty of Engineering (Engineering and Architecture Courses), the following subjects in the University's Senior School Certificate are required:*

Chemistry.
English.
Mathematics. (All three papers are required).
Physics.
Biology or French or German* or Greek or History or Latin or Spanish.

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*A candidate who has passed the two papers in Junior French may satisfy the Senior B.Sc. or B.Eng. German requirement by passing the Junior examination in this subject.

**The paper in Algebra and the paper in Trigonometry are compulsory. The paper in Co-ordinate Geometry is optional but is strongly recommended for candidates who intend to study for honours in Mathematics, Physics or Chemistry.

Only in exceptional circumstances is a student who has not written and passed the Junior Examination admitted by Senior Matriculation alone.

At least a good average second class standing in the Senior Examination or its equivalent is required for entrance.

3. Full details of these examinations are given in the School Certificate Examination Announcement.

4. A student with incomplete qualifications cannot be admitted as an undergraduate.

Applications for Admission.

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Completed applications must reach the Registrar not later than September 10th.

The number of students admitted is limited and the Faculty is not bound to accept applicants who have passed the required examinations.

Classes of Students in the Faculty.

(1) *Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, exhibitions, bursaries or prizes of any description and may not read for an Honour Degree.

(3) *Partial Students:* Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Chairmen of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has tried and failed to matriculate is not allowed to register as a partial student. If a partial student is accepted subsequently as a regular undergraduate, examinations he has passed as a partial may, by permission of the Faculty, be counted towards his degree.

PERIOD OF STUDY.

The regular length of the course for a B.A., B.Sc. or B.Com. degree is four years from Junior Matriculation, or three years from Senior Matriculation. Students from other universities are sometimes admitted to the upper years, but the bachelor's degree is never conferred upon a student who has spent less than two years in the Faculty.

REGISTRATION.

Thursday, the 28th of September is Freshman Day and all students entering the Faculty of Arts and Science for the first time are required to attend a meeting to be held in Moyse Hall on that morning at 9.30 o'clock.

Registration in all years will start on Friday the 29th of September and will finish on the following day.

After September 30th all registration is done in the Registrar's Office and a special late registration fee must be paid (see General Information Pamphlet).

No student is admitted after October 12th except by special permission of the Dean.

The special regulations for women students are given in the General Information Pamphlet.

ADVISERS.

Students may consult the Dean, the Group Chairmen, or the Assistant to the Dean, at any time. Women students may also consult the Warden of the Royal Victoria College.

ADVANCED COURSES IN THE FIRST YEAR.

The Departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the Departments when lectures actually commence and there is in such cases no separate registration for them.

Students in the First Year who have the necessary qualifications may be permitted by the Dean to take one or more Second Year courses.

GENERAL DEGREES AND HONOUR DEGREES.

An undergraduate in the Faculty of Arts and Science may proceed to a General Degree, involving the study of a fairly wide range of subjects with a limited amount of specialization, or to an Honour Degree which, after the Second Year, necessitates almost complete specialization in either one or two subjects.

For details see the Announcement of the Faculty of Arts and Science.

Students in the School of Commerce who specialize in Economics may obtain Honours in this subject. Other students in the School may be awarded distinction or great distinction.

ATTENDANCE.

Students in the First and Second Years are required to attend at least seven-eighths of the total number of lectures and of the total number of laboratory periods in each course. Attendance at lectures in the Third and Fourth Years is voluntary, but laboratory periods and conferences in all years are compulsory.

EXAMINATION MARKS.

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

THE TWO TERMS.

The session is divided into two terms, the first starting on the 1st of October and the second starting on the 8th of January. (For Calendar see the General Information Pamphlet).

The University does not admit new students in January.

ADMISSION TO THE SECOND AND THIRD YEARS.

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous school and university work. (*See also page 117*).

To obtain a bachelor's degree a student must spend at least two years in McGill College.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES.

Each undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered (see page 112), and, unless otherwise instructed by his Dean, must follow the regular work of his year toward this degree.

Students intending to transfer into one of the professional faculties before graduating in Arts and Science should make themselves familiar with the entrance requirements of the faculty they seek to enter and should see that the courses they choose conform with these requirements. (See pages 112 to 117).

For details concerning the granting of the B.A. or B.Sc. degree to Students who transfer into the Faculty of Medicine or the Faculty of Dentistry at the end of the Third Year, see the separate announcement of the Faculty of Arts and Science.

SCHOLARSHIPS AND BURSARIES.

A separate announcement giving details of scholarships and bursaries may be obtained from the Registrar's Office.

EXAMINATIONS RECOGNIZED FOR ADMISSION TO THE UNIVERSITY

McGill University recognizes a number of public examinations as conferring, under certain circumstances, Junior and Senoir Matriculation standing for Admission to the Faculty of Arts and Science and other faculties and schools.

The Admissions Committee requires generally that:

(1) The certificate has been obtained under no easier conditions than those of McGill Matriculation.

(2) The subjects of the examination and the school course followed are those the University requires.

(3) The school records and confidential reports are satisfactory.

Candidates who wish to enter by certificate should under no circumstances come to the University without first having obtained an official acceptance of their application.

The following gives a brief outline of the certificates and examinations accepted. For complete details see the School Certificate Examinations Announcement.

I. For admission to the First Year of the B.A., B.Sc., B.Com., B.Sc. (Agr.), and B.Sc. (H.Ec.) courses.

Canada.

The recognized Junior Matriculation or equivalent examinations of the various provinces.

Great Britain.

The School Certificate of the recognized examining bodies with five credits.

The London University Matriculation Examination.

The Certificate of Fitness of the Scottish Universities Entrance Board.

United States.

The tests of the College Entrance Examination Board.

Certificates from accredited High Schools are recognized only if the Candidate occupies a position in the highest fifth of the graduating class and is specially recommended by the School authorities.

Miscellaneous.

Other certificates, such as those issued by universities or public examining boards will be judged on their merits and accepted if they meet all the University requirements.

II. For admission to the Second Year of the B.A., B.Sc., B.Com., B.Sc. (Agr.), B.Sc. (H.Ec.) courses, and the First Years of the Faculty of Engineering, the School of Physical Education, and the School of Physiotherapy.

Canada.

The recognized Junior and Senior Matriculation or equivalent examinations of the various provinces.

Great Britain.

The Higher Certificates of the recognized examining bodies.

United States.

Completion of one year in an approved college with a suitable syllabus and good grades.

McGILL UNIVERSITY

MONTREAL



School Certificate Examinations

JUNE and SEPTEMBER

1945



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THE NEW SCHOOL CERTIFICATE

As the result of a careful study of the functions of its public examinations, McGill University first offered in 1944 two new certificates, the Junior School Certificate and the Senior School Certificate. These certificates are awarded to candidates who pass examinations in subjects which form a reasonable course of study for a secondary school pupil.

Formerly the only certificates the University awarded were the Junior and the Senior Matriculation certificates. To obtain one of these a boy or girl had to qualify for admission to the first or the second year of a regular university degree or diploma course. This meant that school curricula were influenced by the entrance requirements of university faculties. The University will no longer offer either the Junior or the Senior Matriculation certificates.

The new School Certificates are obtainable on easier terms than the former matriculation certificates and candidates will have a much wider choice of subjects, so that schools now have far greater freedom in planning their curricula.

It must be emphasized, however, that the new School Certificate does not automatically admit to any faculty or school of the University. To matriculate, i.e., to enter the University, a candidate must write and pass all the papers required by the faculty he wishes to enter and obtain the average mark the faculty has set. Thus, to enter the Faculty of Arts and Science an applicant must write ten papers (see page 136), although he may obtain the Junior School Certificate by writing eight papers only.

For the recognition of these Certificates for admission into the various faculties of the University, see pages 136 and 157.

SCHOOL CERTIFICATE EXAMINATIONS

GENERAL REGULATIONS

June and September Examinations.

The School Certificate examinations are held in June and September —in June at McGill University and local centres; in September at McGill University and one or two selected outside centres. The time-tables for these examinations are issued in February each year.

All inquiries, except from candidates in Great Britain, relating to the examinations should be addressed to the Registrar of the University.

Candidates in Great Britain.

Candidates in Great Britain should consult the Honorary Representative of the University, W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C. 4.

Application Forms.

Every candidate for examination is required to fill in an application form and return it to the Registrar's Office with the necessary fee before the 20th of May or the 20th of August for the June or September examinations respectively. After these dates applications may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications.

Fees.

Junior Examination. The Junior Examination fee is $1.25 per paper with a maximum fee of ten dollars.

Senior Examination. The Senior Examination fee is three dollars per paper with a maximum fee of fifteen dollars.

Regulations.

In centres outside Montreal candidates may be required to pay the whole or part of the expenses of invigilation.

A fee of $1.00 is charged for late applications. (*See above*).

No refunds are paid to candidates after the last day of registration (20th May or 20th August), excepting only when a candidate is absent throughout the whole examination on account of illness, and a medical certificate to this effect is presented within four weeks of the close of the examination.

Fees paid for one examination cannot be credited towards a subsequent examination.

CERTIFICATES.

The examinations may be taken in parts but the University will issue a School Certificate only on the results of examinations written within a period of sixteen months.

This rule also applies to the recognition of certificates granted by other examining bodies.

School Certificates are issued only to candidates who have passed the complete University School Certificate Examination.

TEXT-BOOKS.

Junior School Certificate.

The University does not recommend or refer to specific text-books in the syllabi of its Junior School Certificate Examinations, except in Mathematics. Set "texts", however, form an essential part of the language papers.

Senior School Certificate.

The University has also discontinued the recommendation of some of the Senior School Certificate text-books, but in other subjects it is considered desirable that the work should follow closely that of the corresponding course in the first year of the Faculty of Arts and Science, and in such subjects the text-books used in the University courses have been retained as Senior School Certificate text-books for the present.

CONSULTATION WITH DEPARTMENTS.

The University Departments concerned will be pleased to give school principals or specialist teachers advice concerning methods or books of reference, and to discuss problems that may arise in connexion with the syllabi for either the Junior or the Senior School Certificate Examinations. The Registrar will be glad to arrange such conferences.

PREVIOUS PAPERS.

Books containing the examination papers set in either June or September of any one year may be obtained from the Bursar's Office at 25c. a copy.

PUBLICATION OF RESULTS.

Each candidate will receive a statement of his results as soon as they are ready. The certificates are sent to successful candidates a little later.

A list of the successful candidates is published in the Press. This list gives the class of the certificates obtained and any distinctions gained, but does not give any relative order of merit within the three classes.

The actual marks in each paper are sent to each candidate and are given on the back of the certificate but are not otherwise published.

JUNIOR SCHOOL CERTIFICATE

REQUIREMENTS FOR THE CERTIFICATE

To obtain a School Certificate a candidate must complete the requirements within a period of sixteen months. This allows four attempts in the June and September examinations of two successive years.

For first and second-class certificates two attempts only are allowed. For details, see page 136.

The pass mark in each paper is fifty per cent. To obtain the certificate a candidate must write eight papers chosen according to the regulations that follow and must *either* pass in every paper *or* obtain an average of at least sixty per cent in the eight papers with no individual mark below forty per cent.

Compulsory Papers

English Literature
English Composition
*Elementary French

Optional Papers

Five papers on optional subjects must be chosen from not less than two of the three groups below:

Group I	Group II
Algebra	Advanced French
Geometry	German (two papers)
Chemistry	Spanish (two papers)
Physics	Latin (two papers)
Botany	Greek (two papers)
Biology	
Intermediate Algebra	
Intermediate Trigonometry	
Advanced Arithmetic	

Group III

General History *or* British History
Canadian History
Geography
Art
Music

A candidate may write more than eight papers; in fact ten are required for entrance to the University (see page 136), but the certificate is awarded on the eight papers only. If a successful candidate writes more than eight papers, the class of the certificate he receives is reckoned on the subjects in which he has the highest marks. If such a candidate offers a subject, such as Latin, which has two papers, the marks in both these papers must either count towards the certificate or be neglected, i.e., a candidate cannot count towards his certificate the better of two Latin marks and the better of two German marks.

*The University may, under special circumstances, permit candidates to substitute another modern language for French.

FIRST, SECOND, AND THIRD CLASS CERTIFICATES.

Successful candidates are awarded a school certificate of the first, second, or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if he fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles a candidate who has complied with the previous regulation to a first class certificate.

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

DISTINCTIONS.

Candidates who obtain 80% or over in any subject are given distinction in this subject.

ENTRANCE REQUIREMENTS OF FACULTIES ADMITTING STUDENTS ON THE BASIS OF THESE EXAMINATIONS

FACULTY OF ARTS AND SCIENCE

For matriculation into the First Year of the Faculty of Arts and Science a candidate must pass (i.e., obtain 50%) in each of the ten papers listed below, and obtain an average mark of at least 60% in the ten papers combined. A student, however, who fails in one or more of the papers may obtain matriculation standing provided (a) his average in the papers is not less than 65%, and (b) he has no mark in any of the ten papers below 40%.

(1) Admission to Courses leading to B.A. degree.

No. of Papers	Subject
2	English.
1	History. (British or General)
2	Latin or Greek.
2	Two papers in Greek or Latin (the one not already chosen); German; Spanish, or Elementary French and Advanced French.
2	Elementary Algebra Elementary Geometry.
1	One of the following: Biology; Botany; Chemistry; Drawing; Geography; Physics; Music; one paper in Intermediate Mathematics; Canadian History; a foreign language not already chosen (the average of the two foreign language papers is counted).
10 papers	

(2) Admission to courses leading to B.Sc. degree.

In the University's own examination ten papers are required

No. of Papers	Subject
2	English.
1	History. (British or General).
2	French (Elementary and Advanced), or German.
2	Elementary Algebra. Elementary Geometry.
1	One of the following: Biology; Botany; Chemistry; Physics.
2	Either Latin or Spanish or French or German (if not already chosen) or any two of the following papers not already chosen: (a) Intermediate Algebra.* (b) Intermediate Trigonometry.* (c) Biology or Botany. (Biology and Botany may not both be chosen). (d) Chemistry. (e) Geography. (f) Physics. (g) Canadian History. (h) Music or Drawing. (Music and Drawing may not both be chosen).

10 papers.

(3) Admission to courses leading to B.Com. degree.
Either (1) or (2) above.

Faculty of Agriculture

(1) Admission to courses leading to B.Sc. (Agr.).

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English.
1	History.
2	Latin *or* French *or* German *or* Spanish (French preferred).
2	Elementary Algebra. Elementary Geometary.
1	Physics or Chemistry or Biology.

*Candidates who intend to enter Engineering should choose these subjects. They are also strongly recommended for candidates who intend to study for honours in Chemistry, Mathematics, or Physics.

No. of Papers	
	EITHER
2	Latin or French or German or Spanish (if not already chosen);
	OR
	Any two of the following papers not already chosen:—
	a. Intermediate Algebra;
	b. Intermediate Trigonometry;
	c. *Botany;
	*Biology;
	d. Chemistry;
	e. Physics;
	f. Drawing;
	g. Geography;
	h. Canadian History.
	i. Music (B.H.S. candidates only. Music and Drawing may not both be chosen.)
10	papers.

(2) For admission to the School of Household Science the requirements are those of the Science Courses printed above.

PRESCRIPTION OF WORK IN EACH SUBJECT

For the examinations in June and September 1945.

In all papers marks will be deducted for bad errors in spelling.

BIOLOGY.

All the subjects mentioned should be studied practically, both in the field and in the classroom. Vivaria and aquaria should be kept and plants should be grown in soil and water culture. Pupils should be encouraged to collect materials and so add to the school museum. Typical preparations and demonstration dissections should be made. In small classes pupils might do some dissection personally. Simple experiments should be used wherever possible. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any order with due regard to the season and local conditions.

I. The general external characters and structure of a dicotyledonous flowering plant and of a small mammal such as a rabbit and the general biological principles to be drawn from such studies.

The general structure of a plant cell and of an animal cell as seen in Spirogyra and Amoeba. The properties of living matter. The differences between animals and plants.

*Botany and Biology may not both be chosen.

II. The general structure, life-history, relation to environment, and broad classification of the following types based on practical study.

Plants: Thallophyta: Algae—unicellular and filamentous; Fungi —bacteria, yeast, mould, higher fungi. Bryophyta—one type. Pteridophyta — one type. Spermatophyta: Monocotyledons — one type. Dicotyledons—one herb and one tree. Details of the appearance and structure of the organs of a flowering plant considered in relation to function.

Animals: Protozoa—Amoeba, Paramecium; Coelenterata—Hydra; Annelida—Earthworm; Arthropoda—Crayfish, Grasshopper or Locust; Pisces—Perch, Pike, Cod or Haddock; Amphibia—Frog; Reptilia—external characters of Lizard or Turtle; Aves—external characters of a Bird; Mammalia—Rabbit.

III. The physiology of living organisms. Structure and function should be studied together.

Plant Physiology—Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth and reproduction. The plant organism as a whole. Seasonal changes in perennial herbs and trees.

Animal Physiology—Elementary physiology of the animals listed in the preceding, including locomotion, nutrition, circulation, respiration, secretion, excretion, nerve control, action of hormones, growth, reproduction. Seasonal changes in animals.

IV. Field Natural History. The natural history of the plants and animals mentioned. Relationship of plants and animals in the general economy of nature. Trees and animals of the neighbourhood. Relation of plants and animals to their physical environment and to one another in one type of community, such as woodland pasture, cultivated land, swamp or an aquatic community. The dominant plants and animals of this community.

V. The interrelation of plants and animals with man. The importance of plants and animals as sources of food, shelter, clothing, commercial products.

Plants—Green plants as basic food supply. Man's staple food plants. Lumber, paper, rubber, etc. Plant geography and plant industries of North America in relation to climate. Useful bacteria and fungi; organic decay, carbon and nitrogen cycles. Pathogenic bacteria and fungi and their control.

Animals—Protozoan and other parasites as causal agents of disease; insects, useful and injurious, in relation to human health, farm stock, crops and forests. Food animals. Fur-bearing animals in relation to climate.

VI. Elementary outline of the principles of heredity and variation among plants and animals.

One examination paper.

BOTANY.

All the subjects mentioned should be studied practically. Aquaria should be kept, plants grown in soil and water culture, and simple physiological experiments carried out. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any suitable order.

I. Organs and Cells.

The general external characters and structure of a flowering plant considered in relation to its mode of life.

Structure of a plant cell; properties of protoplasm; types of cell.

II. Types and Classification.

The general structure, life history, relation to environment and broad classification of the following types:

Thallophyta:	Algae—Oscillatoria, Protococcus, Spirogyra, Oedogonium, Fucus or Laminaria. Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi, including at least one parasitic form. Lichens—general.
Bryophyta:	A Liverwort, a Moss.
Pteridophyta:	A Fern, Equisetum, Selaginella.
Spermatophyta:	Gymnosperms—one Conifer type and general characters of other local species. Angiosperms — a Monocotyledon; Dicotyledons — herbaceous and tree types. General structure of flower, fruit and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

General characteristics and common plants of the following families of flowering plants: Liliaceæ, Gramineæ, Orchidaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Umbelliferæ, Solanaceæ, Labiatæ, Compositæ.

III. Physiology and Histology.

Elements of the microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth, tropisms, and reproduction. The organism as a whole. Seasonal changes in perennial herbs and trees.

IV. Field Natural History.

Common trees and some other plants of the neighbourhood. Elements of the ecology of at least one local area, such as wood, meadow, swamp or seashore. Adaptation to environment. Modes of pollination and of distribution and germination of seeds.

V. Heredity.

Elementary outline of the principles of heredity and variation as applied to plants.

VI. Relation to Man.

Green plants as the basic food supply. Man's staple food plants. Nature and source of other important plant products, e.g., lumber, fibres, paper, rubber. Useful bacteria and fungi; organic decay, carbon and nitrogen cycle. Pathogenic bacteria and fungi and their control. Main types of vegetation found in North America, with emphasis on Canada; their relation to climate and to human activities.

One examination paper.

CHEMISTRY.

I. Preparation, properties and uses of hydrogen; oxygen; ozone; hydrogen peroxide; the halogens and their hydrides; nitrogen, its hydride, oxides and acids; sulphur, its hydride, oxides and acids; carbon and its oxides; phosphorus, its hydride, oxides and acids.

II. General methods of production of the metals such as sodium; calcium, magnesium, aluminum, copper, chromium, and manganese.

III. Periodic Classification of the Elements generally.

IV. Common industrial processes, including those for sodium hydroxide, lime, sodium carbonate, sulphuric acid, nitric acid, ammonia, fixation of nitrogen, and calcium carbide.

V. Water, its composition and physical properties.

VI. Aqueous solutions of electrolytes and non-electrolytes.

VII. Catalysis.

VIII. Laws and theories associated with the following names: Boyle, Charles, Avogadro, Gay Lussac, Dalton, Lavoisier, Henry, Dulong and Petit, Arrhenius, and LeChatelier.

IX. Reversible Reactions.

X. Thermo chemistry of carbon, hydrogen, ozone.

XI. Elements of Atomic Structure.

XII. Atomic, molecular and equivalent weights.

XIII. The Atmosphere.

One examination paper.

DRAWING.

Candidates must take two parts. They may take *either* (a) Parts I and II *or* (b) Parts III and IV *or* (c) *one* of III and IV and *one* of V and VI.

PART I

Elementary problems in the graphic geometry of the circle, ellipse, and plane rectilinear figures.

PART II

(*a*) Reproduce freehand ornament designs from flat copies.

(*b*) Make drawings, by freehand, or otherwise, of objects described, illustrating the principles of perspective.

(*c*) Make outline drawings of objects placed at a short distance.

PART III

Make a drawing in light and shade, with charcoal or pencil, of a plaster cast or a still life group.

PART IV

Make water colour drawings of still life groups.

PART V. COMMERCIAL ART

(*a*) Lettering, including Roman and Gothic.

(*b*) Posters, Magazine Page Advertisements.

(*c*) Illustration, in colour and otherwise.

PART VI. CRAFT DESIGN

(*a*) Principles of ornament and decoration.

(*b*) Historic Styles.

(c) Themes, compositions or designs, founded on flowering plants, birds, fishes, butterflies, animals and humans, for specific purposes such as:—wall papers, embroideries, silver and copper work, jewellery, stained glass, decoration of pottery, cups and saucers, etc.

ENGLISH.

A. Composition.

Short essays on general subjects including at least one question in which the candidate is addressing a particular audience. There will be a wide choice of subjects but the practice of setting essays on the general readings in English Literature will be discontinued. There are now no special readings required for the Composition paper.

B. Literature.

For critical study:

1. Byron, Shelley, and Tennyson, in Poems of the Romantic Revival (Copp, Clark, Company, Toronto), or in Nineteenth Century Poetry, edited by Dilworth (Copp, Clark Company, Toronto).

2. Shakspere: The Merchant of Venice *or* Macbeth.

For general reading:

3. Novel: Scott; Kenilworth *or* Eliot; The Mill on the Floss.

4. Shakspere: Twelfth Night *or* The Tempest.

5. "English Essays" selected by W. Peacock, World's Classics, Vol. 32 (O.U.P.). Suggested readings: Addison, Goldsmith, Lamb, Hazlitt, Thackeray, and Stevenson.

FRENCH.

Elementary Paper.

The examination will consist of the following four parts:

A. *Oral Comprehension.*
Either a passage in French will be read to the candidates who will then be asked to answer, in English, questions on this passage, *or* a French dictation will be given.

B. *Written Comprehension.*
One or more short passages in French will be given to the candidates to read. They will then be asked to answer, in English, questions on these passages.

C. *French Composition.*
A short essay to be written in French upon a topic selected by the candidate from a list printed on the examination paper.

D. *Grammar.*

(a) Simple English sentences to be translated into French.

(b) Questions on fundamental grammatical forms (plurals, tenses of verbs, feminines, etc.).

A detailed syllabus may be obtained from the Registrar's Office.

Advanced Paper.

A. Translation from English into French.

B. Translation from French into English:
one sight passage,
one or more passages from the texts.

C. Questions on the texts to be answered in French.

French Texts:—

1945. Maupassant: Ten Short Stories (Ginn), and Brieux: Blanchette (Heath) or Pailleron; le Monde où l'on s'ennuie (Holt).

1946. About: Le Roi des Montagnes (Harper or Heath), and Augier and Sandeau: Le Gendre de M. Poirier (Holt).

GEOGRAPHY.

The main purpose of instruction in Geography is assumed to be to arouse in the student's mind a perception of (1) the influence of geographical environment on human life, and (2) how human endeavour may modify the natural environment. At the same time, a certain minimum amount of factual knowledge is required.

Candidates are expected to have an elementary knowledge of map reading and an ability to draw simple sketch maps to illustrate their answers. Simple problems to be worked on a map may be included in the paper.

A. *World Geography*, with special reference to the characteristics of the major natural regions.

The shape of the Earth: latitude and longitude as a means of locating position.

The movements of the Earth: local time, and the course of the Seasons.

The distribution of land and water.

Land forms and the agencies modifying them.

The Ocean: currents, tides, and waves.

The factors determining climate, including the atmospheric circulation.

The broad contrasts and chief features of the major natural regions of the World, with the reasons for their existence: e.g. the tropical forests, the great deserts, etc.

The distribution of population, introduced by an elementary treatment of the topographical, climatic, and other factors which influence the settlement and development of human communities—A brief account of racial distribution—The areas of exceptionally dense and exceptionally scanty population—Predominantly agricultural, industrial, mining, and fishing regions—The advantages of trade—The position of the great trading centres and seaports—The more important trade routes by land and sea, and the developing air routes—The more important political divisions of the World, with special attention to the British Empire.

B. Regional Geography.

The countries around the North Atlantic: Canada, the British Isles, the United States of America, and France, taken in decreasing order of detail. Position, physical features, climate, natural resources, and, in outline, the history of development, as influencing the present distribution of population, and the occupations, trade, and life, of the people.

Candidates may be asked to insert required data on a blank map of the whole or any part of the North American Continent and to show familiarity with such geographical forms and forces as may be exemplified in their home district.

One examination paper.

GERMAN.

Texts:—(Translation and grammatical study):—

B.A.: Guerber, Märchen und Erzählungen Vol. I. (Heath), Numbers 1, 2, 5, 6, 7, 8, 11, 12, 13, 14, 15; A. Sapper; Frieder, Im Thüringer Wald (F. S. Crofts & Co., New York, 1934).

Grammar:—A thorough knowledge of German accidence and syntax.

Translation at Sight from English into German and German into English of easy prose passages.

B.Sc.: Guerber: Märchen und Erzählungen Vol. I, (Heath), Numbers 1, 2, 5, 6, 7, 8, 11, 12, 13, 14, 15; and Fiedler and Sandbach: A first German Course for Science Students (O.U.P.).

Grammar:—A knowledge of German accidence and syntax.

Translation at Sight of sentences from English to German and of easy prose passages from German into English.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

GREEK.

Texts: Colson, Greek Reader (Macmillan) Parts III, IV, V; Allen, The First Year of Greek (Macmillan), Lessons 1-34 inclusive, with the Exercises belonging to these lessons.

Grammar:—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Two examination papers; one on Colson and Grammar; the other on Allen and Composition.

HISTORY.

(*a*) *General History from 1618-1914*
One examination paper.

(*b*) *British History from 1714-1914*
One examination paper.

(*c*) *Canadian History to 1927*
One examination paper.

In preparing for the History papers a rigid adherence to any one author or to any one book is quite undesirable. Instead, a broad and extensive basis of reading and study should be encouraged, provided always that the standard of historical scholarship normally recognized as applicable to the last two years of secondary work is not exceeded.

British and General History.

For both the European Continent and the British Isles a descriptive knowledge of the principal physiographical features and their historical influence is assumed; also a similar descriptive knowledge of races and nationalities with their geographical distribution and inter-relations.

Candidates should be trained in an elementary technique in dividing their subject as a whole into successive periods or eras. For each successive period this elementary technique should be carried to a point at which a candidate is equipped to indicate the following: 1,—the prevailing and distinctive characteristics of a period together with the transitional influences leading to the next; 2,—the political and other movements common to several countries at the same time; 3,—the history of individual countries or States both large and small, when these are of outstanding importance; 4,—the changing views of the nature of the State and of the nature of government and public authority; 5,—international relations and foreign policy in general; 6,—the Balance of Power, the purposes and objects of wars, military and naval history, treaties of alliance and of peace; 7,—such leading topics as the Eastern Question, Mediterranean rivalry, the Rhine as a frontier, the Polish and the Irish

Questions, etc. Religious changes and the history of Churches should be viewed in the light of their relations with the State as well as of their broader connections with society. A beginner's acquaintance should be sought with different ways of political thinking involved in such schools of thought as Liberalism, Conservatism, Reaction, Socialism, Imperialism, Nationalism, etc. To these should be added an elementary study of commerce and commercial rivalry, of transport and transportation routes, together with an outline sketch of the progress of science, of industry and industrial life, of education, letters, and the fine arts. For the British Isles, industry, industrial life and constitutional development are naturally to be stressed.

General History (1618-1914) is intended to include the history of European countries during this period, together with some knowledge of that of their colonies.

A supplementary use of biographies and of historical fiction is strongly advised. The following books are suggested as examples of what the candidates may be recommended to read in this connection, but it is not intended to imply that teachers should not be at liberty to suggest additional works to their classes in accordance with their particular interests. The paper will include questions which will give candidates an opportunity of showing their knowledge of these supplementary readings.

General History. 1618-1914.

K. Federn:	Richelieu.
F. Watson:	Wallenstein.
J. Buchan:	Cromwell.
F. Funck-Brentano:	The Old Regime in France.
A. Young:	Travels in France.
H. Fisher:	Napoleon.
J. Holland Rose:	The Personality of Napoleon.
P. Guedalla:	The Hundred Years.
H. du Coudray:	Metternich.
P. Guedalla:	The Second Empire.
G. M. Trevelyan:	Garibaldi and the Thousand.
E. Ludwig:	Bismarck.

British History. 1714-1914.

J. Addison:	Essays from the Spectator.
H. Walpole:	Selected Letters (Everyman).
J. L. & B. Hammond:	The Village Labourer.
Cobbett:	Rural Rides.
P. Guedalla:	The Duke.
J. L. & B. Hammond:	Lord Shaftesbury.
Mrs. Craik:	John Halifax Gentleman.
L. Strachey:	Queen Victoria.
L. Strachey:	Eminent Victorians.
A. Maurois:	Disraeli.
Quennell:	History of Every-day Things in England, 1733-1851.
H. Spring:	Fame is the Spur.

Canadian History to 1927

There are no text books assigned to this course. Such histories of Canada as Stuart Wallace's *History of the Canadian People*, or Duncan McArthur's *History of Canada* or G. W. Brown's *Building the Canadian Nation* are useful in drawing together the various aspects of the subject.

A general knowledge of Canadian history should be sought. Candidates must be familiar with the main features of Canadian geography, and be able to relate these features to historical development in successive periods. Special attention should be given to social and economic history; political and constitutional history may be taught best in relation to social and economic growth. It is desirable, also, that students have some knowledge of the racial groups from which the modern Canadian people evolved.

(1) Geography; the North American Indians.

(2) The Era of Discovery, 800-1600.

(3) Canada as a Province of France, 1600-1763.

The Fur Trade and Exploration; the peopling of New France; the place of the Church in the life of the Province; the government of New France; the struggle for supremacy in North America.

(4) Canada as a British Province, 1760-1860.

French Canada and British rule; contests with the United States, 1775-1814; the West and the Fur Trade; the coming of the British immigrants; the lumber trade and the wheat trade in Eastern Canada; transportation by river, road, and rail; the struggle for self-government.

(5) The National State, 1850-1927.

The Confederation movement; the West, the tariff, and the first transcontinental railway; progress in the early twentieth century; the First Great War, and the post-war era; the development of diplomatic relations to 1927.

A wide reading of biographies and of historical fiction is strongly recommended. More specialized books may be consulted also. *The Makers of Canada* contain much good biographical material; *The Chronicles of Canada*, material of a more general character. The following list of books is in no way exhaustive, but is intended to suggest to the teacher some of the books available.

J. L. Burpee.....An Historical Atlas of Canada.
C. W. Jefferys.....Illustrations from Canadian History, Vol. I.
Brown, Woodley, Denton and Talman.....Readings in Canadian History.
G. Wrong.....The Rise and Fall of New France.
E. C. Guillet.....The Great Migration.
H. Keenleyside.....Canada and the United States.
D. C. Harvey.....The Colonization of Canada.
G. Bouchard.....Other Days; Other Ways.
A. Macmechan.....Old Province Tales.
W. Cather.....Shadows on the Rock.

LATIN.

Texts (Translation and Grammatical study).

Latin Prose and Poetry (Bonney and Niddrie).

Cicero I, II, IV, VI and Letter VIII.

Nepos, I, II, VII, VIII, X.

Caesar, I, II.

Pliny, I, VI, VIII, IX, XI.

Virgil, Part I, I-VII.
Part II, Georgics, I-V.

Ovid, VI, VIII-X.

Horace, I, IV, VI, VIII.

Martial, I-IV, VIII, X.

Every-day Life in Rome, Treble and King (Oxford).

Knowledge of grammar will be tested by translation and composition, and by questions in grammar based on the specified texts.

Translation at Sight from Latin into English (with the aid of a vocabulary of unfamiliar words).

Composition. Translation into Latin of detached sentences. The vocabulary is based upon the texts studied.

(There will be no questions set upon: subordinate clauses in indirect narration; temporal clauses with *dum, donec,* and *quoad; antequam* and *priusquam; quin* and *quominus* clauses; causal and concessive clauses).

Two examination papers; one on the Prose authors and composition, the other on the Poets, Sight Translation, and on the text book Everyday Life in Rome.

NOTE.—The "Roman" method of pronouncing Latin is recommended.

Higher Arithmetic.

1. Addition, subtraction, multiplication, and division of integers. Factors. Highest Common Factor and Least Common Multiple.

2. Properties of Vulgar Fractions including addition, subtraction, multiplication, and division. Complex Fractions.

3. Properties of decimals including the conversion of vulgar fractions into decimals and vice versa. Extraction of square root. Contracted multiplication and division of decimals.

4. Simple properties of ratio and proportion. The Unitary method.

5. Simple properties of percentages, e.g., changing a fraction to a per cent and vice versa, finding what per cent one number is of another.

6. Units of measurement and changing from one unit to another. A knowledge of the standard tables of weights and measures will be expected, e.g., length, area, volume, capacity (liquid and dry), apothecaries (fluid and weight), avoirdupois and troy weight, time, English and Canadian monetary systems. The metric system.

7. Simple mensuration of the rectangle, triangle, parallelogram, trapezoid, circle, cylinder, cone, and pyramid.

8. The construction and interpretation of simple graphic and other representative diagrams of concrete numbers.

Candidates will be expected to apply the preceding principles to the solution of simple problems such as the making of solutions and preparation of dosages, the relation between pressure and temperature of a gas,

the comparison between fahrenheit and centigrade thermometric scales, etc. Students should be taught to apply rough approximations, such as

$$\frac{3.1416 \times \sqrt{64.37}}{\sqrt[3]{126}} = \frac{3 \times 8}{5} = 5$$

to check the accuracy of their work and they should also be shown how to use tables of squares, square roots, cubes, and cube roots of integers and decimals. A knowledge of circulating decimals will not be required.

One examination paper.

Elementary Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportion, as in High School Algebra by J. T. Crawford (Revised Edition, 1940) published by Macmillan and Co., pp. 1-320, omitting Chaper XIII and pp. 288-289, or similar text-books.

One examination paper.

Elementary Geometry.—The paper will contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate must provide himself with a ruler graduated in inches and tenths of an inch, and in centimeters and millimeters, a set square, a protractor, compasses, and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry will consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Geometry for High Schools by W. J. Lougheed and J. G. Workman, published by the Macmillan Co. of Canada (1941), omitting pp. 223-224, 242, 308-314, 323-329, or the same subject matter in any similar text-book.

One examination paper.

INTERMEDIATE MATHEMATICS.

Algebra.—Arithmetic, geometric and harmonic progressions, variations, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, as in Intermediate Algebra by H. Tate, published by Sir Isaac Pitman and Sons, Toronto, or as in similar text-books.

One examination paper.

Trigonometry.—Measurement of angles, radian measure, trigonometrical ratios of functions of one angle, of two angles, and of a multiple angle, relations between the sides and angles of a triangle, easy problems on heights and distances, easy trigonometrical equations, as in Elementary Trigonometry by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools (1940 edition), published by the Macmillan Company of Canada, Chaps. I to XI inclusive, omitting paragraph 113a, or as in similar textbooks.

One examination paper.

Four-figure mathematical tables will be provided.

MUSIC.

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical *or* vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

PHYSICS.

The following are the main topics required in Mechanics, Heat, Electricity and Magnetism. There is one examination paper.

Mechanics.

Measurements of length, area, volume, mass and weight. The beam and spring balances.

Uniform and uniformly accelerated motion in a straight line; Newton's laws of motion and simple applications of them. Motion under gravity; the law of gravitation. Moments of forces; composition of parallel forces, equilibrium of forces (parallelogram and triangle laws); centre of gravity. Work, energy, power. Sliding friction. Mechanical advantage of a machine; levers, pulleys, wheel and axle, differential pulley and differential wheel and axle, inclined plane, wedge, screw; efficiency of a machine. Density and specific gravity. Fluid pressure, Pascal's law; hydraulic press. Relation between pressure and depth. Buoyancy; Archimedes Principle; floating bodies. Measurement of specific gravity of solids and liquids; specific gravity bottle, hydrometer.

Weight and pressure of air; barometers, determination of altitude, weather forecasting, Boyle's Law. Air pumps and compressors. Pressure gauge. Suction and force pumps, siphon.

Surface tension and capillarity (qualitative treatment).

Heat.

Elementary ideas of the structure of matter and kinetic theory of gases. Sources of heat. Temperature; construction of a liquid in glass thermometer, fixed points, graduation; Centigrade and Fahrenheit scales. Expansion of solids, coefficient of linear expansion; expansion of liquids, anomalous expansion of water. Expansion of gases, Charles' Law, absolute temperature; the gas equation.

Heat quantity and its measurement in calories and B.T.U., specific heat, capacity for heat: calorimetry by method of mixtures. Change of state; fusion and solidification; effect of pressure on melting point; heat of fusion; freezing mixtures; vaporization, rate of evaporation, saturated vapour, boiling, effect of pressure change (including altitude); heat of vaporization of water; cooling by evaporation. Condensation of water in the air; dew point; relative humidity, wet and dry bulb hygrometer, humidity and health; atmospheric phenomena—fog, clouds, dew, frost, rain, snow, hail.

Mechanical equivalent of heat; steam engine.

Conduction of heat, solids, liquids and gases; convection, currents in fluids, winds; radiant heat, emission and absorption; heating of buildings, ventilation; refrigeration.

Magnetism.

Natural and manufactured magnets; polarity, attraction and repulsion. Magnetic induction, magnetic field. Molecular theory. The earth as a magnet; compass, declination, dip.

Static Electricity.

Electrification by friction, attraction and repulsion, two kinds of electrification; conductors and insulators; electrons; gold leaf electroscope. Electrification by contact and induction; testing charge on a body; induced charge equal to inducing charge; charges by friction equal and opposite; charges reside on outside of empty hollow conductor. Action of points, lightning rods. Potential, capacity, condensers, Leyden jars.

Current Electricity.

Magnetization of steel by discharge of Leyden jar.

Voltaic cell, electric circuit, series and parallel arrangements. The magnetic, chemical and thermal effects of a current; Oersted's experiment, magnetic field due to a straight wire, circular wire, and helix; polarity. Action of one current on another, Ampère's Laws, Tangent and moving coil galvanometers. Electromagnet. Electric bell and telegraph. Electrolysis of water, laws of electrolysis, coulomb, measurement of current; electroplating. Voltaic cell, chemical action, electromotive force, polarization, local action. Leclanche and dry cells. Storage cells, lead accumulator. Heat developed by current; electric iron, fuses, incandescent

lamp and arc light. Ohm's Law; practical units, ampere, volt, ohm; fall of potential in circuit, method of substitution for measuring resistance. Law of dependance of resistance on length and cross-section of cylinder. Work done in a circuit, rate of working in circuit and in lamp. Ammeters and voltmeters.

Electromagnetic induction; Faraday's experiments. Induction coil. Dynamo, armature, field magnets, commutator for D.C. electric motor, transformer, telephone.

SPANISH.

Two papers will be set, containing (1) questions on grammar and syntax, (2) passages for translation from prescribed texts, (3) unseen translation from Spanish into English, and (4) translation from English into Spanish.

Texts prescribed:—Alvarez Quintero: La Flor de la Vida (Heath & Co.). El padre Isla: Gil Blas de Santillana (Macmillan).

CERTIFICATES RECOGNIZED

Candidates for admission offering certificates which are not a full equivalent may be required to pass in one or more McGill papers.

Intending students who wish to enter by certificate should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificate they hold.

The following certificates will be considered on their merits towards meeting the University entrance requirements:—

PROVINCE OF QUEBEC.
The High School Leaving Certificate.
The Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.
Middle School.

PROVINCE OF NEW BRUNSWICK.
Junior Matriculation.

PROVINCE OF NOVA SCOTIA.
Grade XI Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.
Second Year Certificate of Prince of Wales College.

PROVINCE OF BRITISH COLUMBIA.
Junior Matriculation.

PROVINCE OF MANITOBA.
Grade XI Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.
Grade XI.

NEWFOUNDLAND.
Junior Matriculation.

GREAT BRITAIN.

The School Certificate of:—

The Oxford and Cambridge Schools Examination Board.
The Oxford Local Examination Board.
The Cambridge Local Examination Board.
The Northern Universities Joint Examination Board.
The Central Welsh Board.
The University of Durham.
Bristol University.
The University of London.

The University of London Matriculation.

The Certificate of Fitness issued by the Scottish Universities Entrance Board.

The School Certificates above will be accepted for admission to the B.A. courses *with four Credits* if these are (1) English, (2) Latin or Greek, (3) French or German or Spanish, (4) Mathematics or a Science; *or with five Credits* if the five are three of the Credits mentioned above and two Credits in subjects not mentioned (excluding Religious Knowledge).

For admission to the B.Sc. courses, a science may replace Latin or Greek.

UNITED STATES.

1. McGill University recognizes the examinations conducted by the College Entrance Examination Board, 431 West 117th Street, New York City.

2. Because of the war the programme of College Board Examinations has been modified. Pupils who think of applying for entry to McGill University should ask their Principal to write to the Registrar concerning the tests to be taken.

3. Certificates from accredited High Schools are not normally recognized but pupils are sometimes admitted without further examination if they occupy a position in the first fifth of their class and are specially recommended for university work by their Principals.

MISCELLANEOUS.

Other certificates, such as those issued by universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

SENIOR SCHOOL CERTIFICATE

REQUIREMENTS FOR THE CERTIFICATE

To obtain the Senior School Certificate the candidate must pass in English Literature and English Composition and in at least three of the following subjects:

Accountancy.	History.
Biology.	Latin.
Chemistry.	Mathematics.
French.	Music.
German.	Spanish.
Greek.	Physics.

To satisfy the examiners in a language the candidate must pass in each of the two papers in this language.

To satisfy the examiners in Mathematics the candidate must write and pass at least two of the three papers offered in this subject.

Pass Mark.—The pass mark in each paper is fifty percent.

Classes of Certificates.—Successful candidates are awarded a Senior School Certificate of the first, second, or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if he fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles the candidate who has complied with the previous regulation to a first class certificate.

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

Distinctions.—Candidates who obtain 80% or over in any subject are given distinction in this subject. Distinction is not given in *single* papers of Mathematics or the languages (including English).

UNIVERSITY ENTRANCE REQUIREMENTS

(Senior Matriculation)

Under certain conditions, a candidate may qualify for admission into the Second Year of the Faculty of Arts and Science or the First Year of the Faculty of Engineering by writing and passing the required papers of the Senior School Certificate Examination.

I. Faculty of Arts and Science

Junior Matriculation standing (see page 136) is required in addition to the following Senior School Certificate papers.

(a) Arts Courses

English.

Latin or Greek.

Mathematics* or a third foreign language.

Any two of the following:—

1. History.
2. Latin or Greek (the one not already chosen).
3. French.
4. German.
5. Spanish.
6. Science (Physics or Chemistry or Biology).
7. Music.

*Two papers: one in Algebra and one in Trigonometry.

Candidates may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Certificate Examination or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the Junior Certificate Examination, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

Candidates who wish to enter the Faculty of Medicine at the end of the Third Year of the B.A. course must take Mathematics.

(b) Science Courses

For admission to the Second Year of the B.Sc. courses.

Chemistry.

English.

French or German.*

Mathematics.**

Physics.

(c) Commerce

For admission to the Second Year of the B.Com. courses.

English.

Mathematics.

French or German or Spanish or History.

Accountancy.

Any one of the following:—

1. Latin or Greek.
2. French or German or Spanish (one not already chosen).
3. Physics or Biology or Chemistry.
4. History (if not already chosen).

II. Engineering

For admission to the First Year of the Faculty of Engineering (Engineering and Architecture Courses).

Chemistry.

English.

Mathematics. (All three papers are required).

Physics.

Biology or French or German* or Greek or History or Latin or Spanish.

A high standing in Mathematics is required.

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*A candidate who has passed the two papers in Junior French may satisfy the Senior B.Sc. or B.Eng. German requirement by passing the Junior examination in this subject.

**The paper in Algebra and the paper in Trigonometry are compulsory. The paper in Co-ordinate Geometry is optional but is strongly recommended for candidates who intend to study for honours in Mathematics, Physics, or Chemistry.

REQUIREMENTS IN EACH SUBJECT

(For the examinations in June and September 1945)

ACCOUNTANCY.

Double-Entry Book-keeping, including all subsidiary books and ledgers, up to and including the use of Control, Total or Balancing Accounts; closing off of ledgers; preparation of Trading and Profit and Loss Statements and Balance Sheets.

Books specially required.

Cash-Book suitable for an office, where all cash and cheques received are banked daily, all payments above a certain amount are made by cheque, and all lesser payments through petty cash. Cashier to be able to show the balance in the bank at any time at very short notice.

Cash-Book suitable for an office, where sums of cash are kept in the office, in addition to petty cash, and deposits in bank do not include whole of receipts. Cashier to be able to show balances of cash, etc., in office and in bank at any time, and at very short notice.

Departmental Sales and Purchases Journals for recording transactions in different classes of goods.

General Journal ruled so as to segregate items according to ledgers into which they are to be posted, in order that totals may be posted to control accounts.

Other matters specially required.

Bills and Notes Payable Registers.

Imprest System of Petty Cash.

Reserves for Bad Debts, Discounts and Depreciation.

Inward and Outward Consignments.

Inward and Outward Freight on Merchandise purchased and sold.

Accrued Expenses and Deferred Charges.

Single Entry Book-keeping.

Use of Working Sheets.

Candidates may be required to define and explain such as the following:—

Invoices; I.O.U.'s; Promissory Notes; Bills of Exchange and parties thereto; Acceptances, Endorsements, etc.; Cheques; Bills drawn in a Set; Bills of Lading; Capital and Revenue Receipts and Expenditure; Current and Fixed Assets; Capitalization.

Marking is arranged so as to prevent any candidate obtaining a pass unless he has shown that he has a sound knowledge of what is outlined in the first paragraph. No candidate is passed who does not show that he understands Control Accounts and their uses. For this purpose subsidiary ledgers and their control accounts in the General Ledger must be shown in full; in addition, the books of original entry must be so ruled and organized that they will produce the required figures no matter how large may be the quantity of items dealt with.

One examination paper.

BIOLOGY.

The botanical part of this syllabus is the same as for Junior School Certificate Botany (p. 140) with the following modifications:—

(a) further knowledge of the ecological interrelation of plants and animals is required.

(b) knowledge of the characteristics of particular families of flowering plants is *not* required.

In order to fulfil the requirements of the syllabus satisfactorily, pupils must undertake individually the dissection of animals, section-cutting of plant tissues, microscopic examination of small organisms and tissues, and simple physiological experiments.

A more intensive study of the Junior School Certificate syllabus is expected, with extension along the following lines:

I. The structure, life-history, principles of classification and evolutionary relationships of the following, based on practical study:

Plants:

Thallophyta:	Algæ—Oscillatoria, Protococcus, Spirogyra Oedogonium, Fucus or Laminaria.
	Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi including at least one parasitic form.
	Lichens—general.
Bryophyta:	A Liverwort, a Moss.
Pteridophyta:	A Fern, Equisetum, Selaginella.
Spermatophyta:	Gymnosperms—one Conifer type and general characters of other local species.
	Angiosperms —a Monocotyledon; Dicotyledons—herbaceous and tree types. General structure of flower, fruit and seed, Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

Animals:

Protozoa—Amœba, Euglena, Paramœcium, Plasmodium.

Cœlenterata—Hydra, Obelia.

Platyhelminthes—Fasciola, Tænia.

Annelida—Lumbricus, external characters of a Ploychæte.

Arthropoda—Crayfish, Grasshopper.

Mollusca—Clam or Snail.

Cephalochorda—Amphioxus.

Pisces—Dogfish.

Amphibia—Frog.

Mammalia—Rabbit or Rat, skull of Dog or Cat.

Comparison of the various organ-systems in the animals listed.

Asexual and sexual reproduction. Alternation of Generations.

Elements of vertebrate embryology as found in the developing Frog and in the Chick (up to end of third day of incubation), to be studied practically.

II. Physiology: structure in relation to function.

Plants—Microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

A fuller knowledge of the principal physiological processes as outlined in the Junior Syllabus. This should be based on simple experiments carried out by the student, which he may be asked to describe.

Animals—The chief physiological processes, as outlined in the Junior Syllabus, should be studied more fully and comparatively in all the types listed in Section I.

Tissues and organs and their functions as observed in Vertebrates.

Respiratory pigments. Vitamines, Hormones. Commensalism. Parasitism.

III. Field Natural History and Ecology.

This should be extended beyond the Junior Syllabus to include study of several biotic communities of the neighbourhood, with some knowledge of the dominant plants and animals in each and their relation to one another and to the physical environment.

Life zones and living natural resources of Canada.

IV. Heredity and Evolution.

The main principles of heredity and variation among plants and animals.

Cytological basis of heredity.

Evidences of organic evolution.

One examination paper.

CHEMISTRY.

Text-book:—Schlesinger, General Chemistry, third edition (1937), omitting pages 319-322, 333-336, 338-345, 368-371, 535-539, 542-553, 561-613, 765-767.

Laboratory Manual:—Barnes, General Chemistry Laboratory Manual, (Second Edition, 1940), is recommended. *Minimum* requirements, Chaps. 6 to 10, 12, 15, 18, 20A, 21 and any five others selected from Chaps. 4, 5, 11, 13, 14, 19, 20B, 20C, 22, or the equivalent from any standard manual designed for first year university students.

One examination paper.

The student's notebook, setting forth his own laboratory work (together with any problems or exercises carried out in connection with the laboratory work), certified by the Instructor and Principal of the School, must be forwarded to the Registrar for the examiner's evaluation *before the date of the written examination.*

ENGLISH.

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Literature.—Candidates will be expected to have a general elementary knowledge of English literary history from the time of Chaucer, and the examination will be based upon a list of readings which may be obtained from the Registrar's Office.

Two examination papers, one on English Literature and one on English Composition.

FRENCH.

Lavisse, Histoire de France, Cours Moyen; A. Daudet, Neuf Contes Choisis (Holt); Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

Translation at Sight from English into French and from French into English.

Two examination papers.

Oral Examination: An oral examination is held in centres where this is possible, and students intending to study French at the University are strongly advised to take this examination. The oral examination is given *in addition* to the two papers. Success in the oral examination is recorded on the candidate's certificate. A candidate who fails in the oral examination does not thereby prejudice his chances of obtaining a certificate, but is treated exactly as though he had not attempted the oral test.

GERMAN.

As it is now very difficult to obtain German texts, there will be a choice of books in 1945. Students may offer either:

Baumbach, Waldnovellen (Heath); Riehl, Burg Neideck (American Book Co.); Hauff, Das Wirtshaus im Spessart (Cambridge University Press).

Or:

Th. Storm: Immensee (Morgan-Wooley-Heath); G. Keller: Kleider Machen Leute (Heath); F. Bauer: Das tickende Teufelsherz (Crofts).

In 1946 the second group will be compulsory; the first group will not be acceptable.

Translation at Sight from German into English and from English into German.

Two examination papers: one on prescribed texts and one on translation of unseen passages from German into English and from English into German.

GREEK.

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

HISTORY.

General History of Europe from the break-up of the Roman Empire to 1914.

In point of extent the examination will include the history of Europe from the break up of the Roman Empire to 1914. An advanced outline knowledge of the fifteen centuries involved is assumed, following the general consideration laid down for the study of the briefer period, 1618-1914 in the Junior Certificate requirements. (See pages 146, 147). Candidates are expected to have read extensively selected documentary sources; to this end constant reference to some collection of documentary sources is essential. Regular use of an historical atlas of high standard is likewise essential. Stress should be laid, as far as possible, upon the institutional side of historical change, and upon the importance of institutions, political and otherwise, in the social structure. Candidates should have acquired proficiency in describing and explaining, with the correct use of elementary technical terms, the organization of European society at any given period, and the changes in organization from one period to another.

An elementary institutional knowledge should be shown in the discussion of such topics as: the civilising mission of the Church in the Dark Ages; feudal and manorial society and mediaeval town life; the City-States of Renaissance Italy with their cultural and economic interests; the emerging of the monarchical-national State; the era of overseas discovery, exploration and settlement; the Protestant revolt and Catholic reaction with their ensuing wars; the regime of unlimited monarchy; the rise of democracy, the Napoleonic period; the influence of 19th century nationalism; and the adjustment of the Balance of Power leading to the outbreak of the World War.

Candidates should read at least one of the works in each of the following groups:—

(1) Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).

(2) Machiavelli's Prince (Everyman Series); Macaulay's Essays on Machiavelli and on Ranke's History of the Popes; Motley's Rise of the Dutch Republic, Part III (Everyman's edition, vol. II).

(3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.

(4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

One examination paper.

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LATIN.

Cicero, Murder at Larinum (Grose-Hodge, Macmillan); A book of Latin Poetry, edited by Joliffe and Breslove (Macmillan), Part I.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

MATHEMATICS.

(1) *Algebra:*—Arithmetic, geometric and harmonic progressions, variation, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, functional notation, graphical representation, miscellaneous series such as the sum of the squares and of the cubes of the natural numbers with easy deductions therefrom, as in Intermediate Algebra by H. Tate, published by Sir Isaac Pitman and Sons, Toronto, or as in similar text-books.

One examination paper.

(2) *Coordinate Geometry:*—The elements of the coordinate geometry of the straight line and circle as in A New Analytic Geometry by J. E. Durrant and H. R. Kingston, published by the Macmillan Co. of Canada, pp. 1-153 inclusive, and pp. 292-296, or as in similar text-books.

One examination paper.

(3) *Trigonometry:*—Measurement of angles, radian measure, trigonometrical ratios or functions of one angle, of two angles and of a multiple angle, relations between the sides and angles of a triangle, solution of triangles using logarithms, easy problems on heights and distances, general values and inverse functions, limits and approximations, as in Elementary Trigonometry by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools, 1940 edition, published by the Macmillan Co. of Canada, Chapters I-XIII, XVII, XVIII and pp. 204-205, or as in similar text-books.

Four figure mathematical tables will be provided.

One examination paper.

MUSIC.

(a) *Harmony.*—Scales; Intervals; Transposition of melodies; use of C clefs; barring of certain passages and determining their keys; analysis of chords; chords up to the Dominant 7th and Augmented 6th. This course leads gradually to the writing of simple harmony in 3 or 4 parts. The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Text-books:—MacPherson, Rudiments of Music; Kitson, Elementary Harmony—Part I.

(b) *Form and Analysis.*—Phrase. Sentence. Sequence. Cadence Accent. Rhythm. Time. Melody. Modulation. Early Dance Forms Suites—with special consideration of the Minuet and Trio.

Text-books:—MacPherson, Form in Music; MacPherson, Studies in Phrasing and Form; R. O. Morris, Structure of Music.

(c) *History.*—Musical origins, Hebrew and Greek influence on early Christian Music. The rise of Music in two or more parts. Secular Music. English, Flemish and Italian composers. The Renaissance, Instrumental Music, (Lute, virginal, viol, etc.), Opera. Beginnings of the Orchestra. Bach and Handel. C. P. E. Bach and sonata form. Haydn. Mozart. The Romantic Movement. Nationalism in Music. Modern Music.

Text-books:—Stanford & Forsyth, A History of Music; Hadow, Music.

(d) *Aural Training.*—Development of a mental appreciation of scale degrees. Recognition of intervals and simple rhythms. Easy dictation. Sight Reading. Listening—to develop quickness of ear, memory, and natural accuracy. Quality of tone.

Two written examination papers, one on Advanced Rudiments and Harmony and one on Form and Analysis and History. In addition there will be a short practical examination on Aural Training.

PHYSICS.

One paper will be set upon a general knowledge of the more important principles of elementary physics, the scope being that of Mendenhall, Eve, and Keys, College Physics (Heath) or of any equivalent text-book.

Laboratory Work:—Experiments should be performed equivalent to those outlined in an Elementary College Course in Experimental Physics (Renouf Publishing Co.). The student's notebook setting forth his own laboratory work, certified by the instructor and by the principal of the school, must be forwarded before the examination to the Registrar for inspection.

SPANISH.

Two papers will be set as in the Junior School Certificate, but the examination will be of a more advanced character.

Prescribed texts:—Baroja's "Zalacaîn el aventurero", (Heath & Co.); A. Palacio Valdés, A cara o cruz, (Macmillan).

CERTIFICATES RECOGNIZED

The following certificates will be considered on their merits towards meeting the University entrance requirements:—

PROVINCE OF QUEBEC.

Senior High School Leaving Certificate.

Senior Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.

Upper School Certificate.

PROVINCE OF NOVA SCOTIA.

Grade XII Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.

Third Year Certificate of the Prince of Wales College.

PROVINCE OF MANITOBA.

Grade XII Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.

Grade XII Certificate.

PROVINCE OF BRITISH COLUMBIA.

Senior Matriculation Certificate.

NEWFOUNDLAND.

Senior Matriculation Certificate.

GREAT BRITAIN.

The Higher Certificates of:—

The Oxford and Cambridge Schools Examination Board.

The Oxford Local Examination Board.

The Cambridge Local Examination Board.

The Northern Universities Joint Examination Board.

The Central Welsh Board.

The University of Durham.

Bristol University.

The University of London.

In addition, pupils of recognized British Public and Secondary Schools who have obtained their School Certificates with the requisite credits, may be admitted to the Second Year without further examination, if they have satisfactorily completed at school a year's work beyond the School Certificate in the subjects of the McGill Senior School Certificate, and are specially recommended by their headmasters or headmistresses.

McGILL UNIVERSITY

MONTREAL



SCHOLARSHIPS, BURSARIES, PRIZES, AND MEDALS

1944-1945

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UNIVERSITY SCHOLARS 1943-44

With dates of first award

ARTS

Albert, Ruth 1941
Block, Shirley C. 1940
Cassirer, Thomas 1943
Cole, Joyce B 1943
*Lane, Alec W. A. 1942
Magid, Nora 1942
Massey, Irving 1940
Naiman, James 1941

SCIENCE

Breitman, Leo 1943
Cooper, Ross 1943
Darragh, James 1941
Goldfarb, Lionel 1943
Hubel, David 1943
Leonard, Rhona 1941
Nirenberg, Louis 1942
Perrault, Michel 1943
Rosen, David 1942
Smith, S. Douglas 1943
Van Straten, Sylvia 1942

ENGINEERING

Cahn, R. Paul 1940
*Coates, Donald F. 1943
Corkran, William F. 1943
Ince, Geoffrey 1943
Knight, Curtis 1941
Legris, Ernest 1942
Mroz, Boris 1941
Stonehewer, John 1943
White, H. Edward 1941
Yorke-Slader, Geoffrey 1942

MEDICINE

Payne, Torrence 1943
Powles, William 1936
Rosen, Harold 1941
Shatan, Hyman 1942
Stevenson, Ian P 1942

ARCHITECTURE

Baillie, Sheila 1941

LAW

Stalker, Alexander 1943

*On active service.

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS, AND LOAN FUNDS

I. GENERAL STATEMENT

1. GENERAL REGULATIONS

(1) Scholarships are awarded and bursaries and loans granted only to students taking a regular course leading to a degree or diploma.
(2) Scholarships are awarded only if an adequate academic standard is attained.
(3) The annual income of scholarships and bursaries is usually paid in two instalments, one in October and one in February.

2. UNIVERSITY SCHOLARSHIPS

(1) Certain scholarships implying exceptionally high achievement are designated "University Scholarships" by Senate.
(2) The winner of a University Scholarship receives the title and status of a "Scholar of the University." Winners of other scholarships do not receive this title or this status.
(3) Each University Scholarship is of a certain maximum amount, but the amount actually awarded depends upon the financial needs of the winner. At present the minimum total value of a University Scholarship is $100.

3. BURSARIES

(1) Bursaries are grants in aid of students of good scholarship who need such assistance to enter the University or to complete their course.
(2) The amount of a bursary varies with the need established.
(3) A bursary is renewable upon application and is tenable normally until the student has qualified for his degree or diploma, subject always to the dual condition that the need for it continues and that the standing of the student satisfies the University.
(4) The holder of a scholarship may apply for an additional bursary.
(5) Bursaries are normally paid in two instalments: viz.: one in October and one in February.
(6) Holders of bursaries may be required to undertake a certain amount of work for the University in return for their bursaries. The maximum number of hours any bursary holder may be asked to give is three hours a week throughout the session, or one hour for each dollar of his bursary,—whichever may be smaller.
If a student is able to study while carrying out this bursary obligation as, for example, some library assistants can, the number of hours required may be doubled.

4. Loans

The University has a loan fund of strictly limited amount from which some assistance may be given to particularly deserving students under the following conditions:

(1) Loans are normally made only to students in upper years.

(2) Loans are made only to students of good academic standing who are specially recommended on personal grounds by the Deans of their Faculties.

(3) The loan, if granted, is made on the basis of an agreement between the applicant, or a sponsor of the applicant, and the University. The amount of the loan, the date and manner of its repayment, are made part of the agreement so that the debt may be fully discharged at the earliest possible date.

(4) An applicant for a loan should obtain an application form at the office of his Dean and submit this, when completed, to his Dean for transmission to the Bursar.

5. Interviews

Awards and grants of money are made only after a personal interview unless this requirement is explicitly waived.

6 Applications and Inquiries

Unless otherwise stated below, applications and inquiries should in the first instance be made to the Registrar.

Applications for all entrance scholarships (see page 177), for University bursaries, and for the renewal of bursaries, should be made on forms which may be obtained from the Registrar's Office.

SCHOLARSHIPS OF MEN WHO ENLIST

A student having the status of a University Scholar when he leaves the University to serve in the armed forces of Canada will resume this status when he returns to the University. This rule will also apply to any other scholarships considered by the Scholarships Committee to confer a definite status upon the holder.

This regulation is concerned only with the status of scholars. It has no financial implication. All questions of financial aid in the form of scholarships or bursaries for returned men will be considered in the light of circumstances existing at the time of these applications.

II. ENTRANCE SCHOLARSHIPS AND BURSARIES

A. UNIVERSITY ENTRANCE SCHOLARSHIPS AND BURSARIES

(1) University Entrance Scholarships and Bursaries

The University offers not less than four University Entrance Scholarships, each with a maximum value of $300 a year and a minimum total value of $100 (see page 178), together with a limited number of bursaries of smaller value*, tenable either in the Faculty of Arts and Science or in the Faculty of Engineering, and renewable annually provided that the holders continue to merit the award.

Candidates for these awards are required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized matriculation or school-leaving examination,

(*c*) confidential letters from their school principals.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July. The school record and other supporting documents should be sent as soon as they are available.

(2) Eligibility

These scholarships and bursaries are intended for pupils of Public and Private Schools in Canada or elsewhere, but the University may, in exceptional cases, accept applications from other candidates.

Men and women are eligible on equal terms.

Applications will normally be accepted only from students who will be under the age of 20 on 1st October, 1945. In exceptional circumstances the University may waive this rule.

(3) The Title of "Scholar"

The winner of a University Scholarship is given the title of "Scholar". His name is printed as such in the Calendar and he has the status of a Scholar within the University.

**See also the Sir William Macdonald Entrance Scholarships and the Beatty Scholarships on page 178, and the Canadian Pacific Railway Scholarships on page 180.*

After entering the University the winner of a University Scholarship is not required to study for honours, and may be permitted to take the general course.

(4) Financial Need

The University may require the submission of evidence that the candidate needs the money award to further his educational interests. This evidence will normally include a statement from a parent or guardian. Whenever possible, moreover, the candidate will be interviewed. Financial need will in no case affect the University's decision as to the winner of a scholarship, but may influence the amount of the award.

The amount of the award made to any Scholar will not be published.

In special cases the University may consider an application from the winner of a scholarship for additional assistance.

B. OTHER ENTRANCE SCHOLARSHIPS AND BURSARIES

Unless otherwise stated, applications for these scholarships must be made to the Registrar before 1st July.

Unless otherwise indicated, the word "Examination" is used below to denote the University School Certificate Examination, the Provincial High School Leaving Examination, the Catholic High School Leaving Examinations, or any other standard examination recognized for entrance scholarships.

Applicants who have written examinations other than the McGill School Certificate Examination should send a certified copy of their examination marks to the Registrar's Office as soon as they are published.

The Sir William Macdonald Entrance Scholarships in Arts and Science.—Four scholarships of $125 each endowed by Sir William Macdonald and open only to men are awarded under the conditions governing University Entrance Scholarships. (See page 177 for particulars).

The Beatty Scholarships.—Two scholarships, one in Classics (Greek and Latin) and one in Mathematics, of the value of $600 each, have been founded by the late Sir Edward Beatty, former Chancellor of the University. The scholarships are payable at the rate of $150 per annum for four years, and are tenable only in the Faculty of Arts and Science. The Scholarships are awarded primarily for ability in either Classics or Mathematics, but school and examination records in other subjects may be taken into account. These awards are made under the conditions governing University Entrance Scholarships (see page 177) and candidates will be required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized examination,

(*c*) confidential letters from their school principals.

The winner of a Beatty Scholarship on entering the University need not necessarily take courses leading to honours in Classics or in Mathematics, but may enter any course in the Faculty for which he is qualified.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July.

These scholarships are open only to male students, educated in Canadian Schools, whose parents are British or Canadian born.

THE HON. ROBERT JONES BURSARY.—Valued at $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering." The bursary is not continued if the standing of the holder proves to be unsatisfactory.

ROBERT BRUCE SCHOLARSHIP AND BURSARY.—One entrance scholarship of $100 for one year is available in the Faculty of Arts and Science.

One bursary of $100 is open each year to "young men and women of promising abilities but of straitened circumstances in Arts and Science or Engineering."

For the first twenty-five years students of Scottish extraction will be given the preference (1923-1947).

*THE OTTAWA VALLEY BURSARIES.—These two bursaries are:—

1. The P. S. Ross Bursary, of the value of $100, founded by Dr. P. D. Ross, B.A.Sc., LL.D., in memory of his father, the late Mr. P. S. Ross.

2. The Ottawa Valley Graduates' Society Bursary of the value of $75.

These bursaries are given through the Ottawa Valley Branch of the Graduates' Society and are open only to bona fide residents of the Ottawa Valley. The winners are selected by the University from candidates who have written (1) The McGill School Certificate Examination or (2) The Quebec Catholic or Protestant High School Leaving Examination or (3) The Ontario Middle School Examination or (4) The McGill Senior School Certificate or (5) The Ontario Upper School Examination.

Applications must reach the Registrar's Office before 1st September.

**Tenable also at Macdonald College.*

CANADIAN PACIFIC RAILWAY SCHOLARSHIPS.—Scholarships covering one year's tuition in the Faculty of Arts and Science and four in Chemical, Civil, Mechanical, or Electrical Engineering, or six years in the School of Architecture, or four years' tuition in the Arts courses of the Faculty of Arts and Science, or in the School of Commerce, or four years in the School of Household Science, Macdonald College, are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age, as well as to minor sons and daughters of employees. The method of award is that of the University Entrance Scholarships described on page 177, candidates being required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized examination,

(*c*) confidential letters from their school principals.

Forms of eligibility and full particulars as to the number of scholarships available, etc., may be obtained from Mr. F. J. Curtis, Superintendent of Pensions and Staff Registrar, Pension Department, C.P.R. Offices, Montreal. Applications, on forms obtainable from the Registrar's Office, accompanied by statements of eligibility from Mr. Curtis, must reach the Registrar's Office before 1st July.

THE SIDNEY J. HODGSON SCHOLARSHIPS.—Two scholarships, of approximate values $200 and $150 respectively, were founded by Arthur J. Hodgson, Esq., in memory of his son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. They are open to pupils of Westmount High School who have been in attendance for at least one year, and are awarded on the result of the June Examinations. The $200 Scholarship is tenable in the Faculty of Engineering and is awarded to the pupil obtaining the highest percentage in the Senior High School Leaving subjects required for admission to that faculty; the $150 Scholarship is tenable in the Faculty of Arts and Science and is awarded to the pupil obtaining the highest percentage in the Junior High School Leaving subjects required for admission to that faculty.

ELIZA REID MEMORIAL SCHOLARSHIP.—*See page 194.*

SCHOLARSHIP GRANTED BY THE GRADUATES' SOCIETY OF THE DISTRICT OF BEDFORD.—This scholarship, tenable in the Arts Division of the Faculty of Arts and Science, has an approximate value of $140 and is awarded annually to a "matriculated student in Arts and Science, proceeding to the degree of B.A., whose parents reside in the District of Bedford and whose candidature has been approved by a committee of the Society."

NARCISSA FARRAND (MRS. N. PETTES) SCHOLARSHIP.—This scholarship, of not less than $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, is awarded annually to the candidate from the Eastern Townships who obtains the highest marks at the Arts and Science Entrance Examinations in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination.

THE GRACE FAIRLEY TRAFALGAR SCHOLARSHIP.—Founded in 1913 by certain friends and former pupils of the late Miss Grace Fairley, to signalize her long and faithful service to education as head of the Trafalgar Institute. It is of the value of $100, is tenable for one year only, and is awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June School Certificate Examination and enters the Faculty of Arts and Science.

*THE ISABELLA C. MACRAE SCHOLARSHIP.—This scholarship of $125 is open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no successful applicants from this locality for six years, the scholarship will subsequently be open to any resident in Ontario.

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIPS (see page 193).

*THE CHRISTIE-STORER CHAPTER SCHOLARSHIP.—A scholarship of the value of $150, endowed by the above-named Chapter of the I.O.D.E. in memory of the men of St. Lambert who fell in the Great War, 1914-1918, is awarded annually to the pupil of St. Lambert High School who stands highest in the June High School Leaving Examination each year, provided that the pupil's aggregate is at least 700 marks out of a possible 1,000.

THE UNITED THEOLOGICAL COLLEGE BURSARIES.—The Board of Governors of the United Theological College offers bursaries to be used towards the payment of fees of undergraduates in Arts and Science who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Principal, 3520 University Street, Montreal.

**Tenable also at Macdonald College.*

†Presbyterian College Scholarships.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts and Science who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations.

University Bursaries (see page 183).

*Khaki University and Y.M.C.A. Memorial Scholarship Fund (see page 184).

*Leonard Foundation Scholarships (see page 184).

Women Associates of McGill Bursary (see page 185).

*Tenable also at Macdonald College.
†Not to be awarded until further notice.

III. SCHOLARSHIPS, BURSARIES, LOAN FUNDS, MEDALS, AND PRIZES IN THE VARIOUS FACULTIES OF THE UNIVERSITY

A. OPEN TO STUDENTS IN ALL FACULTIES

UNIVERSITY SCHOLARSHIPS.—University Scholarships with a maximum value of $300 a year (see page 175) may be awarded by the University Scholarships Committee to students in any year of any undergraduate faculty. They are awarded for exceptionally distinguished work in the regular University examinations and special applications are not required.

UNIVERSITY BURSARIES.—The University has established a number of bursaries open to students in all faculties and schools. The general regulations governing the award of these are stated on page 175. Application must be made on a special form and forwarded to the Registrar. The forms may be obtained from the Registrar's Office and must be returned before the end of August.

DOMINION-PROVINCIAL LOANS AND BURSARIES.—The Dominion and Provincial Governments jointly offer a number of bursaries and combined bursaries and loans to university students. To be eligible an applicant must be a British subject with at least five years residence in the Province of Quebec, must be an undergraduate in good standing, not a student in theology, and must be in need of financial assistance. Special provision is made for students in science, engineering, medicine, and dentistry. For further particulars apply to the Registrar's Office.

*B'NAI B'RITH BURSARIES.—Three bursaries of $100 each for the 1944-45 session have been given to the University by the Mount Royal Lodge of B'nai B'rith. These bursaries are open to men and women students in any faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the end of August, 1944.

*FREDERICK SOUTHAM KER BURSARY.—This bursary was established in 1941 by Mr. F. N. Southam in memory of his grandson, Frederick Southam Ker, who was killed in action on September 6th, 1940. This bursary of $250 is open on equal terms to men and women of all faculties without respect to religion or race. It is awarded to a student who gives promise of becoming a good citizen but is handicapped in his or her academic course by lack of funds. Financial need, character, and academic record are all taken into account in making the award.

*These awards are also tenable at Macdonald College.

NATIONAL COUNCIL OF JEWISH WOMEN OF MONTREAL BURSARIES.—The National Council of Jewish Women of Montreal offers each year a limited number of bursaries. The value of each award is normally $100 and preference is given to Jewish students. These bursaries are awarded by the Council upon the recommendation of the University Scholarships Committee. Academic standing and financial need are both taken into consideration in making the award. Application should be made on the ordinary University Bursary application form.

*KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL SCHOLARSHIP FUND.—The interest on this fund is awarded in scholarships by the Scholarship Committee subject to the following two conditions:

(i) that the scholarships may be held by undergraduates only.

(ii) that the preference is given to sons and daughters of soldiers:

(a) who served in the Great War.

(b) who serve in the present war.

*LEONARD FOUNDATION SCHOLARSHIPS.—The Leonard Foundation created in 1916 by the late Colonel Reuben Wells Leonard and Mrs. Leonard offers each year a number of scholarships tenable at schools, colleges, and universities in Canada, approved by the Foundation.

The scholarships are open to men and women. A student to be eligible must be "a British subject, of the white race, of the Christian Religion in its Protestant form, and of the full age of fourteen years."

The amount of the award will vary with the need of the winner.

Sons and daughters of the following are given preference in the selection of scholars:

(a) Clergymen, (b) School Teachers, (c) Officers, Non-Commissioned Officers and Men, whether active or retired, of His Majesty's naval, military, or air forces, (d) Graduates of the Royal Military College, (e) Members of the Engineering Institute of Canada, (f) Members of the Mining and Metallurgical Institute of Canada.

Men and women returning from active service are also given preference over the non-preferred class.

The University is willing to endorse and forward with its recommendation applications of any candidates who may wish to apply through the University and are approved by it.

Such candidates must make their applications on forms to be obtained from the Registrar's Office and must return these to the Registrar before the 1st February, 1945.

A booklet giving further particulars may be consulted in the Registrar's Office.

**These awards are also tenable at Macdonald College.*

WOMEN ASSOCIATES OF McGILL BURSARY.—A bursary of approximately $125 is available each year to men and women students in any Faculty. Scholarship and need will determine the award. The winner will be chosen by the Executive of the Women Associates of McGill from a list of candidates recommended by the Scholarships Committee and selected from the applicants for University bursaries. (See page 175).

ALLIED NATIONS BURSARIES.—Ten bursaries of $100 each to be awarded under the following conditions: (1) the bursaries are open only to refugees from the Allied Nations whose countries have been overrun by the enemy, (2) the bursaries are open on equal terms to men and women, (3) the scholastic standing of the applicants must be high, (4) applicants must need financial assistance to enable them to undertake or continue their university course, and (5) the Selection Committee when making the awards will take into consideration the candidates' general and personal qualifications for the careers they intend to adopt.

POST DISCHARGE RE-ESTABLISHMENT ORDER.—Under an Order-in-Council of 1st October 1941 (P.C. 7633) the Dominion Government has established educational grants for men and women who return from active service. The grant includes the full tuition fees and a subsistence and is paid for as many weeks as the recipient was on active service. A copy of the Order-in-Council may be seen in the Registrar's Office.

PRIZES

CHESTER MACNAGHTEN PRIZE.—This prize, which may be divided, has at present a value of approximately $70. It is offered annually for the best piece of creative writing in English submitted by a student of the University. The work submitted may be fiction, drama, essay, etc., and may be in prose or verse. The material should be carefully selected and properly presented. The judges will not read untidy manuscripts or a large number of newspaper clippings. Compositions that have appeared in print are not ineligible provided they have been published since 1st March, 1944. Compositions must be typed and must reach the Registrar before the 1st March, 1945. Entries that win prizes or honourable mention will be retained by the University and filed in the Redpath Library.

NEIL STEWART PRIZE.—An annual prize of $20 in the Hebrew Language and Literature, established by Mr. Neil Stewart of Vankleek Hill in 1878, is open to students in the University and in the affiliated Theological Colleges.

LOAN FUNDS

Applications for loans should be made through Deans of Faculties or Directors of Schools.

UNIVERSITY LOAN FUND.—A Student Loan Fund has been established by the University to assist needy students in all Faculties. Loans are made normally only to students in upper years (see page 176), with good academic standing.

ONTARIO GRADUATES' SOCIETY LOAN FUND.—This loan fund open to students in all Faculties has been established by the Ontario Branch of the Graduates' Society.

COMMERCIAL SOCIETY LOAN FUND.—For students in Commerce (see page 195).

THE "CLASS OF 1899 FUND".—For students in Engineering (see page 201).

THE GEORGE HENRY FROST FUND.—For students in Engineering (see page 201).

THE WADDELL LOAN FUND.—For students in Engineering (see page 201).

THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND.—For students in Engineering (see page 201).

B. OPEN TO STUDENTS IN THE FACULTY OF ARTS AND SCIENCE

For details of Entrance Scholarships see pages 177 and 178.

For scholarships open to women only see page 193.

For Scholarships, Bursaries and Loan Funds open to undergraduates in all Faculties see page 183.

For awards open to Graduate Students see page 208.

GENERAL REGULATIONS IN ARTS AND SCIENCE

1. Only students in regular undergraduate standing are eligible for scholarships.

2. Scholarships will be awarded only if an adequate standard is attained.

3. If in any college year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in two instalments, viz.:—One in October and one in February.

SECOND YEAR SCHOLARSHIPS

Group I.

Six scholarships of $100 each are offered to students advancing from the first to the second year for general proficiency in particular subjects of study. The awards will be made on the basis of the students' complete academic records and on recommendations from the departments in which they have taken their courses.

Group II.

The following scholarships are also offered, according to the terms indicated, to students advancing from the first to the second year.

The Charles Alexander Scholarship.—Established in 1870 by Charles Alexander, "for the encouragement of the study of Classics and other subjects." Value $100.

The Jane Redpath Exhibition.—Founded by the late Mrs. Redpath, for the maintenance of an exhibition in Arts and Science. It is restricted to men and is awarded on the result of the sessional examinations of the First Year to the man who makes the highest average on the year's work. Value $100.

The Barbara Scott Scholarship.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value $80.

The Margaret Jane Allan Scholarship.—This scholarship, of $200, was established in 1929 by a bequest to the Royal Victoria College from Mrs. Agnes W. Allan. It is awarded each year to the woman student in either the B.A. or the B.Sc. courses in Arts and Science who obtains the highest standing in the sessional examinations of the First Year.

SCHOLARSHIPS TENABLE IN THE SECOND, THIRD OR FOURTH YEARS

Group III.

Sir William Macdonald Scholarships.—Six scholarships of $125 each are open to men students in the Second, Third, and Fourth Years for the session 1945-46.

†The Sir William Dawson Scholarship.—Given by the New York Graduates' Society; value $60. Open also to students in Engineering.

The Dr. Barclay Scholarship.—Awarded in the Classical Department, value $50.

The Reford Scholarship.—The interest on this fund, amounting to about $200 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

The Houston Scholarship.—Founded by the will of Thomas Houston, to establish a scholarship for French students studying for the ministry of the Presbyterian Church or the United Church of Canada. It is open only to undergraduates in the Faculty of Arts and Science under the above restriction and is awarded on the result of the sessional examinations without regard to year. The value is about $70.00.

Peterson Memorial Scholarship in Classics.—Founded in memory of Sir William Peterson, Principal of McGill University from 1895 to 1918, by his son, W. G. Peterson, M.A. This scholarship of the total value of $400 ($200 a year for two years) is open to students in any year. The winner is nominated by the Faculty of Arts and Science.

Abbott Scholarships (see page 203).

The Major Hiram Mills Scholarship.—This scholarship, of the value of $120 is open to students in any of the biological sciences including Anatomy, Bacteriology, Biochemistry, Botany, Genetics, Physiology, and Zoology. It is open to both men and women.

THIRD YEAR SCHOLARSHIPS

Group IV.

Eight scholarships of $100 each are offered to students advancing from the second to the third year in both the General Course and the Honours Courses*, on the basis of academic record and recommendations from departments.

*The subjects of study for Honours Courses are as follows:—Bacteriology, Biochemistry, Biological Sciences, Botany, Chemistry, Latin, Greek, Economics, Political Science, English, French, Geology, German, History, Mathematics, Philosophy, Physics, Physiology, Psychology, Sociology, Zoology, and combined courses in two of the above subjects.

Group V.

The following scholarships are also offered, according to the terms indicated, to students advancing from the second to the third year.

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†Not to be awarded until further notice.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of annual value of $75, tenable for two years, will be awarded for high standing in the examinations at the end of the Second Year.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship, founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916, is of the value of $250. It is awarded annually on the results of the examinations in English and Economics of the Second Year, and is subject to the condition that the holder take an Honours Course in English, with Economics as a minor subject in his Third Year, or the Honours Course in English and Economics. It is open to male students in the Faculty of Arts and Science professing the Christian religion.

THE ALEXANDER MACKENZIE SCHOLARSHIPS.—One scholarship of the value of $215 is awarded annually on the results of the honours examinations of the Second Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honours work in Political Science of the Third Year. (See also Group VI).

THE HANNAH WILLARD LYMAN MEMORIAL SCHOLARSHIP of the value of $80 is awarded annually to a woman student of the third or fourth year.

DELTA PHI EPSILON SORORITY BURSARY.—This bursary, founded by the Delta Phi Epsilon Sorority in memory of Edith Silver, is of the value of $100 and is open to a woman student entering the Third Year o the Faculty of Arts and Science.

For other third year scholarships see also Group III.

FOURTH YEAR SCHOLARSHIPS

GROUP VI.

Students advancing to the Fourth Year who have distinguished themselves in the general course or in honours courses may be recommended to Senate by the Faculty for the renewal of a scholarship previously held or for the award of a University Scholarship.

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall, B.Sc., who was drowned shortly after the war, in which he served with distinction. This scholarship is awarded each year to a male student of the Fourth Year professing the Christian religion, who is taking honours in English or in Philosophy or in both these subjects. It is of the value of $250.

THE ALEXANDER MACKENZIE SCHOLARSHIPS.—One scholarship of the value of $215, is awarded annually on the results of the honours examinations of the Third Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honours work in Political Science of the Fourth Year (see also Group V).

For other fourth year scholarships see Group III and Group V.

MEDALS IN ARTS AND SCIENCE

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

The following medals are awarded to the graduating students who stand highest in the First Class Honours List of the subjects named, provided the Faculty so recommends to Senate:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakspere Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palæontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Governor-General's Silver Medal awarded to the student standing highest among those graduating "with great distinction" in the general course.

The Lieutenant-Governor's Silver Medal awarded to the student who stands second among those graduating "with great distinction" in the general course.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

The Lieutenant-Governor's Silver Medal, for History.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of French Language and Literature.

If there is no candidate for any medal, or if none of the candidates fulfils the required conditions, the medal is withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS AND SCIENCE

ANNIE MACINTOSH PRIZE.—The endowment of this prize was contributed by friends and pupils of the late Miss Annie Macintosh and by a special gift of the late Miss I. G. Macintosh. The present value of the prize is $50. It is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

PENHALLOW PRIZE IN BOTANY.—An annual prize of $25, endowed by the Arts Undergraduate Society in 1911, is awarded to the graduating student whose complete record shows the highest first class standing in Botany. At least 4 full courses in the subject must have been taken, and Honours students will receive preference.

HENRY CHAPMAN PRIZE.—A book prize of the value of $20 is given in modern languages (excluding English), or in Hebrew.

THE CHESTER MACNAGHTEN PRIZE (see page 185).

THE CHERRY PRIZE.—This prize of books, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, is awarded annually by the Department of Economics and Political Science to the student who is, in the opinion of the Department, deserving of such recognition.

PETERSON MEMORIAL PRIZE IN LITERATURE.—This prize, founded by W. G. Peterson, M.A., in memory of his father, Sir William Peterson, Principal of McGill University from 1895-1918, is of such value as may be determined from time to time and is awarded to the undergraduate, or graduate, student who in addition to having achieved distinction in English Literature has given evidence of creative literary ability.

THE DORA FORSYTH PRIZE.—An annual prize amounting to the interest annually on $1,000 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

FANTHAM MEMORIAL PRIZE IN ZOOLOGY.—This prize of $50, endowed by Dr. Annie Fantham in memory of her husband, Professor H. B. Fantham, late Strathcona Professor of Zoology and Head of the Department, is awarded annually to the graduating student who has taken the full honours course in Zoology and who ranks highest of those obtaining first class honours in this subject. The prize is open to men and women.

MADELENE HODGSON PRIZE IN HISTORY.—An annual prize of $15 endowed by the Imperial Order Daughters of the Empire in recognition of the work done by Mrs. W. C. Hodgson as President of the Provincial Chapter of Quebec. The prize is awarded to the Third Year Honours student in History who in the opinion of the Department of History has done the most outstanding work in this subject.

HISTORICAL SOCIETY'S PRIZE.—This prize is endowed by a fund belonging to the Historical Society. The award is made jointly by the Executive of the Historical Society and the Chairman of the Department of History to the male undergraduate in the First Year who has shown the greatest promise in History and intends to read for Honours in this subject, and is awarded in books.

ANNE MOLSON PRIZE IN CHEMISTRY.—A prize of $100 awarded annually to the student with the highest record among those graduating with First Class Honours in Chemistry.

PRIZES IN BOTANY AND ZOOLOGY.—A sum of $50 is awarded annually as a prize or prizes in the Departments of Botany and Zoology for original summer collections. Candidates should consult these Departments concerning the collections to be made.

ORNITHOLOGY PRIZE.—A prize of $10 given by Mrs. Christine L. Henderson, to be spent by the winner upon books of his choice relating to natural history. At present this prize is awarded to the student standing highest in the first class in the examination in Advanced Vertebrate Zoology.

ETHEL WALKEM JOSEPH PRIZE.—The Wolfe and Montcalm Chapter of the Imperial Order Daughters of the Empire has endowed an annual prize in the Department of Education as a tribute to Mrs. Henry Joseph, Regent of the Chapter.

MARION MCCALL DALY PRIZE.—A prize of $50 awarded each year to a woman student who has completed the second year and is entering the third year of the Faculty of Arts and Science or the Faculty of Engineering (including Architecture) at the University. The award is made by the University Scholarships Committee in consultation with the President of the McGill Women's Union and another senior woman student chosen by the Committee. In making the award the Committee takes into account (a) the candidate's promise of making a definite contribution to Canadian life, (b) the financial need of the candidate, and (c) the academic record of the candidate.

For awards open to graduates see page 208.

BURSARIES

LOGAN BURSARIES.—A part of the interest of the Logan Medal Fund, amounting to about $200 a year, may be awarded upon the recommendation of the Department of Geological Sciences to undergraduate or graduate students in that department.

Applications should be made in writing to the Chairman of the Department of Geological Sciences before the 31st August.

C. OPEN TO STUDENTS OF THE ROYAL VICTORIA COLLEGE

ENTRANCE SCHOLARSHIPS

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIPS.—Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These are awarded on the result of the McGill School Certificate or Senior School Certificate or other approved examinations.

ADDITIONAL SCHOLARSHIPS

For a statement of the scholarships, bursaries, and loan funds open to women students of the University, see pages 177, 178, 183, 186.

RESIDENT BURSARIES.—In addition to these, four resident bursaries in all, of the value of $200 each, are available for outstanding students of the second, third and fourth years who may be nominated by the Warden. In exceptional cases one or more of these may be awarded to first year students.

SPECIAL SCHOLARSHIPS ADMINISTERED BY A COMMITTEE OF THE ALUMNAE SOCIETY

ETHEL HURLBATT SCHOLARSHIP.—A scholarship of the annual value of $100 to be known as the Ethel Hurlbatt Scholarship, in memory of the late Dr. Ethel Hurlbatt, a former Warden, has been founded by the Alumnæ Society and will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

SUSAN CAMERON VAUGHAN SCHOLARSHIP.—A scholarship of the annual value of $100 to be known as the Susan Cameron Vaughan Scholarship in honour of Mrs. Walter Vaughan, retired Warden, has been founded by the Alumnae Society and will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

HELEN R. Y. REID SCHOLARSHIP.—A scholarship of the annual value of $100 made possible by a legacy from the estate of the late Dr. Helen R. Y. Reid, to be known as the Helen R. Y. Reid Scholarship will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th Year.

ELIZA REID MEMORIAL SCHOLARSHIP.—Founded by The Montreal Women's Club in memory of the first President of the Club, Mrs. Robert Reid. This scholarship of the value of $150 is tenable for one year, with a maximum of four years to any one student, and is awarded to a chosen graduate of The Montreal High School for Girls.

THE LOCAL COUNCIL OF JEWISH WOMEN OF MONTREAL offers an annual scholarship of $100 to be given to a deserving student of the College in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnae Society.

THE B'RAI B'RITH MOUNT ROYAL WOMEN'S AUXILIARY No. 257 offers an annual scholarship of $100 to be given to a deserving student of the college in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnae Society.

ALUMNAE SOCIETY BURSARIES AND LOANS.—In addition to the above, a limited number of bursaries and loans are offered by the Alumnae Society through its Scholarship Committee.

Students interested in bursaries and loans should consult the Warden before the opening of the Session.

D. OPEN TO STUDENTS IN THE SCHOOL OF COMMERCE

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

SCHOLARSHIPS AND PRIZES

ISAAC BRUCK SCHOLARSHIPS.—The Bruck Silk Mills presents $500 annually to the University to provide two scholarships in the School of Commerce.

The scholarships may be held by students in the Second, Third or Fourth year of the School, and are awarded annually without respect to race or sex by The Faculty of Arts and Science upon the results of the sessional examinations in the School.

THE F. W. SHARP PRIZE IN ACCOUNTANCY AND MATHEMATICS.—This will be awarded at the end of the Fourth Year to the best student in Accountancy, Business Organization and Mathematics. Value $50.00.

JOSEPH H. JACOBS PRIZE.—The sum of $650.00 was received from the executors of the estate of the late Joseph H. Jacobs. The annual revenue from this bequest, which is approximately $25, will be awarded as a prize for Second Year Accountancy.

CHESTER MACNAGHTEN PRIZE (see page 185).

MEDALS

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

THE BEATTY MEDAL.—A gold medal endowed by the late Sir Edward Beatty, former Chancellor of the University, is offered to the student in the School of Commerce who attains the highest distinction in Economics. At present, it is awarded on the basis of the aggregate marks for the three full year courses, Elements of Political Economy, Money and Banking, and Economic Distribution.

LIEUTENANT-GOVERNOR'S MEDALS.—A silver medal and a bronze medal have been offered to the School of Commerce by his Honour the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the highest average throughout the last three years of study; the bronze medal for the one who has the second highest average throughout the last three years of study.

LOAN FUNDS

COMMERCIAL SOCIETY LOAN FUND.—A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Application should be made to the Dean of the Faculty of Arts and Science.

OTHER LOAN FUNDS (see page 176).

E. OPEN TO STUDENTS IN THE FACULTY OF ENGINEERING

(Including Architecture)

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

ENTRANCE SCHOLARSHIPS

WORKMAN STUDENTSHIP.—The University accepts one nomination each year for a full course in Mechanical Engineering from the executors of the estate of the late Thomas Workman, provided the student nominated

(1) is a resident of Quebec,

(2) has obtained in the examinations qualifying for admission to the University the standard required by the Scholarships Committee for University Entrance Scholarships or Bursaries.

For other entrance scholarships see pages 177 and 178.

AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

British Association Second Year Prizes.—Two British Association prizes of $40 and $20, at the end of the Second Year, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Calculus and Mechanics of the Second Year.

Scott Exhibition.—A Scott exhibition of $40, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and a British Association prize of $20, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Mathematics, Descriptive Geometry, and Physics of the First Year.

Tighe Prize.—A prize of $50, presented by Mr. James L. Tighe, B.A.Sc., for research work in Hydraulics.

Anglin-Norcross Prize.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in Architectural Drawing in the School of Architecture.

Anglin-Norcross Prize.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in Architectural Engineering in the School of Architecture.

The Louis Robertson Prize.—Founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded in the form of books to the undergraduate student who ranks highest in Design in the Final Year of the School of Architecture.

Philip J. Turner Prize.—A prize of $20 presented by Mr. A. B. Darbyson, a graduate in the School of Architecture of the Class of 1915, to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

The following prizes are offered for the best summer essays:—

Hersey Prize.—To students in Metallurgical Engineering, a prize of $25, presented by Milton L. Hersey, Esq., D.Sc.

ENGINEERING INSTITUTE OF CANADA PRIZES.—The Engineering Institute of Canada offers each year a prize of books or instruments to the value of $25 for the best paper in any branch of engineering received from an English-speaking Student or Junior of the Institute in the Province of Quebec. This prize is known as the Phelps Johnson Prize; another of the same value, the Ernest Marceau Prize, is awarded for the best paper in French. Similar prizes are open to those located in other provinces. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars may be obtained from L. Austin Wright, General Secretary, 2050 Mansfield Street, Montreal.

ENGINEERING INSTITUTE OF CANADA PRIZE.—The Engineering Institute of Canada also offers each year a prize of $25 to the student of the Third Year whose standing, considered in combination with his activities in student engineering organizations, is, in the opinion of the Faculty, most meritorious.

CANADIAN INSTITUTE OF MINING AND METALLURGY PRIZES.—Three prizes, one of $25 and the President's gold medal, and two of $25 each, are offered annually for the best papers submitted by student members to the Canadian Institute of Mining and Metallurgy.

UNDERGRADUATES SOCIETY'S PRIZES.—The sum of $50 has been voted by the Undergraduates Society of the Faculty of Engineering, to be given as prizes for the best summer essays submitted by students in the third and fourth years. $25 is awarded for the best essay, $15 for the second and $10 for the third.

The following regulations apply: (1) the Faculty will correct and grade the summer essays in the usual way, (2) when the classification is completed a list of those essays worthy of consideration by the Prize Committee will be posted, (3) essays awarded prizes will "ipso facto" become the property of the Engineering Undergraduate's Society and will be bound by the Society and kept in the Engineering Library, and (4) a notice, to accompany the list of essays considered, will be posted stating that among the students considered those wishing to compete for the prizes should signify their intention to do so by writing to the Faculty, mentioning clearly that they accept condition No. 3.

THE NATIONAL BREWERIES LIMITED PRIZES.—The sum of $25 has been donated by the National Breweries Limited to provide prizes for summer essays submitted by students entering the second year. For the session 1944-45 the sum will be divided into a first prize of $15 and a second prize of $10.

†SIR WILLIAM DAWSON SCHOLARSHIP.—A Sir William Dawson Scholarship, given by the New York Graduates' Society; value $60; open also to students in Arts and Science (see page 188).

SOCIETY OF CHEMICAL INDUSTRY PRIZE.—A prize of $50 is offered by the Montreal Section of the Society of Chemical Industry (Canadian Section) for an original essay on a chemical subject. Undergraduate students, other than those in their final year, are eligible to present papers. Further particulars may be obtained from the Registrar's Office.

AMERICAN SOCIETY OF METALS PRIZE.—A prize in selected metallurgical books to the value of $10.00 is offered, by the Montreal Chapter of the American Society for Metals, to the student graduating in Metallurgical Engineering who obtains the highest mark, provided he obtains honours standing in the subjects of Metallography and Thesis combined.

THE ROBERT FORSYTH PRIZE IN CIVIL ENGINEERING.—Under the will of the late Miss Jeanie Forsyth the interest on $1000 is awarded each year, if the examiners so recommend, to a "worthy and needy" student of the graduating class who secures high standing in the subjects of Theory of Structures and Strength of Materials.

INSTITUTE OF RADIO ENGINEERS PRIZES.—Each year two prizes will be offered to students of McGill and other approved universities for the best papers on radio engineering or some closely allied subject. The first prize is $25 and the second prize is a student membership in the Institute of Radio Engineers for a period of two years. Essays, which may be written in French or English, must reach the office of the Dean of the Faculty of Engineering not later than the 30th of November 1944.

CHESTER MACNAGHTEN PRIZE (see page 185).

AWARDED AT THE DISCRETION OF THE FACULTY

THE HON. ROBERT JONES BURSARY.—Of the value of $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering."

The scholarship is continued until the holder graduates if his academic standing is entirely satisfactory. Applications should be made to the Dean of the Faculty.

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†Not to be awarded until further notice.

THE BAYLIS SCHOLARSHIP.—Founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100, is awarded to some student entering the Second Year who is in need of financial assistance. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty.

DOUGLAS TUTORIAL BURSARIES.—The late Dr. James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries of approximately $75 per annum in the Faculty of Engineering. In assigning these, the circumstances of the applicants as well as their academic standing are considered. These bursaries carry the obligation of giving tutorial instruction equivalent to one evening a week. Students in the Third and Fourth Years of Engineering are eligible. Written application should be made to the Dean's Office on or before May 1st.

H. M. MACKAY MEMORIAL SCHOLARSHIP.—This scholarship will be awarded during the summer of 1944 to a student of British citizenship who has then completed the First Year in Engineering and intends to enter the Second Year in September, 1945. A committee appointed by the Faculty selects the scholar, having in mind the results of the First Year sessional examinations, general character, industry, and other qualities desirable in an engineer. The value of the scholarship is $135. Payment is withheld if the scholar's progress is unsatisfactory. If no candidate of sufficient merit applies, the scholarship is not awarded. Written applications should be made to the Dean's Office on or before May 1st.

THE JENKINS BROS., LTD., SCHOLARSHIP.—Supported by Messrs. Jenkins Bros., Ltd., and having an annual value of $200, is open to all Engineering students entering the Fourth Year in September 1945 and is awarded on the basis of academic standing and personality. Written application should be made to the Dean's office on or before May 1st.

THE NEVIL NORTON EVANS SCHOLARSHIP.—This Scholarship of $100 a year was established in 1937 by graduates of the Faculty of Applied Science (Engineering), and is open to students of the Faculty of Engineering who show outstanding ability in Chemistry. The award will be made by the Faculty of Engineering and the Department of Chemistry. No application is required.

BURSARIES

THE ANGLIN BURSARY.—Of the value of $200, is given annually by Mrs. Anglin in memory of her husband, the late Mr. J. P. Anglin, B.Sc., 1906. It will not be available for the 1944-45 session.

PROVINCE OF QUEBEC MINING BURSARIES.—Each year the Department of Mines of the Province of Quebec offers a number of bursaries to enable students to take a university course in mining engineering, metallurgy, or geology. The maximum annual value of these scholarships is $650 for a student who has to live away from home in order to attend the University, and $325 for a student who can live at home. Candidates must be Canadians and have lived for at least five years in the Province of Quebec. Further information may be obtained from the Registrar's Office.

BURSARY OF THE CORPORATION OF PROFESSIONAL ENGINEERS.—The Corporation of Professional Engineers presents annually a bursary of the value of $100, tenable by a student in the third or fourth year of the Faculty of Engineering and awarded by the Faculty.

For information concerning bursaries open to undergraduates in all Faculties see page 183.

MEDALS

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

BRITISH ASSOCIATION MEDAL.—This medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals were founded by the British Association for the Advancement of Science in commemoration of its meeting held in Montreal in 1884.

CANADIAN INSTITUTE OF MINING AND METALLURGY MEDAL.—A gold medal and two prizes are offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see page 197.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL.—Awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—Awarded to the student obtaining the second place in the Graduating Class in Architecure, provided his work is considered of sufficient merit.

THE ROYAL ARCHITECTURAL INSTITUTE OF CANADA MEDAL.—A medal is offered annually to the student who has completed the entire course at a recognized School of Architecture, who has obtained high marks throughout his course, and who gives promise of being an architect of distinction after graduation. British subjects only are eligible for this award.

LOAN FUNDS

THE "CLASS OF 1899 FUND".—Established by the "Applied Science" Class of 1899, to aid each year one or more students who, upon the completion of their Second Year, require assistance to enable them to finish their course. Loans from this fund are repayable after graduation. Applications should be made to the Dean.

THE GEORGE HENRY FROST FUND.—Founded by the late G. H. Frost, B.Sc. '60, to aid students who, when commencing the work of the second or a subsequent year in the Faculty of Engineering, require financial assistance. In making loans from this fund the academic standing of the applicants is considered. Applications should be made to the Dean.

THE WADDELL LOAN FUND.—Founded by the late J. B. Waddell, Esq. Loans are made under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well as to undergraduates. Applications should be made to the Dean.

THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND. —Founded by the Montreal Women's Auxiliary of that organization for the assistance of Engineering students in Mining, Metallurgy, Geology and allied subjects. Applications should be made to the Dean.

OTHER LOAN FUNDS (see page 186).

For awards open to Graduate Students see pages 208 and 211.

F. OPEN TO STUDENTS IN THE FACULTY OF MEDICINE

For scholarships, bursaries, and loan funds open to undergraduates in all faculties see page 183.

MEDALS

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

THE HOLMES GOLD MEDAL, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze and the money equivalent of the gold medal.

THE WOOD GOLD MEDAL, founded by Casey A. Wood, M.D., LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is ineligible for this medal.

THE SUTHERLAND GOLD MEDAL, founded in 1878 by the late Mrs. Sutherland, in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Biochemistry, together with a creditable examination in the primary branches.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL, to be awarded to the student of the final year, who in the opinion of the Chairman of the Department of Public Health and Preventive Medicine, is most proficient in that subject.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL, to be awarded to the student who obtains the highest standing in the Final Examination in Physiology.

PRIZES

THE JOSEPH HILS PRIZE. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.)—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

THE JOSEPH MORLEY DRAKE PRIZE. (Founded by the late Joseph Morley Drake, M.D.)—A prize in books, to be awarded to the student who obtains the highest number of marks at the Final Examination in Pathology.

PRIMARY PRIZE.—A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry).

THE F. SLATER JACKSON PRIZE.—An annual prize of $50.00, founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded on the result of a special examination, written and oral, in Histology and Embryology.

THE ALEXANDER D. STEWART PRIZE.—An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

ROBERT FORSYTH PRIZE.—Under the will of the late Miss Jeanie Forsyth the interest on $1,000 is awarded each year to a student who, upon graduation, has shown particular ability in all branches of surgery.

THE JOHN MUNRO ELDER PRIZE.—An annual prize of $25.00 founded in 1935 by Aubrey H. Elder, K.C., in memory of his father, John M. Elder, C.M.G., M.D., C.M., sometime Assistant Professor of Surgery in the Faculty. The prize is awarded on the result of a special examination in Anatomy.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE.—An annual prize of $50 founded by Mrs. Campbell Howard, in memory of her husband, the late Dr. Campbell P. Howard, Professor of Medicine at McGill University. The prize is awarded to the student who shows the most consistent excellence in his written case reports in the subject of Clinical Medicine.

CHESTER MACNAGHTEN PRIZE (see page 185).

SCHOLARSHIPS

DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS.—Established in 1938 by an anonymous donation of $10,000 in honour of the late Maude E. Seymour Abbott, B.A., M.D., F.R.C.P., (Canada), LL.D., (McGill), to commemorate her distinguished work in connexion with the history of Canadian medicine, the Sir William Osler Pathological Collection, and her outstanding research in congenital cardiac disease.

The revenue of this fund is used for the provision of a scholarship or scholarships to be awarded by the University to an undergraduate in the Faculty of Medicine or to an undergraduate in the Faculty of Arts and Science who is preparing to enter Medicine. While men and women are both eligible for the awards, women candidates will be given the preference. The amount of the awards will vary according to the needs of the winners.

Applications in writing must reach the Registrar before the 30th June, 1945.

THE WALTER J. HOARE MEMORIAL SCHOLARSHIP.—This scholarship was endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in the Great War. It is open annually to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine. If there are no qualified candidates in this preferred class, the scholarship may be awarded to another candidate nominated by the Faculty of Medicine. Applications in writing must reach the Registrar before the 1st April.

LOAN FUND

KELLOGG LOAN FUND.—A limited sum of money has been placed at the disposal of the Faculty of Medicine by the Kellogg Foundation to assist medical students not eligible for other grants. Nearly all the grants made possible by this fund have now been awarded so that applications will be considered only if the circumstances are exceptional. Applicants should consult Dean D. L. Thomson, Chairman of the Scholarships Committee in the Faculty of Medicine.

For awards open to Graduates in Medicine see pages 208 and 212.

G. OPEN TO STUDENTS IN THE FACULTY OF DENTISTRY

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

MEDALS AND PRIZES

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

THE MONTREAL DENTAL CLUB GOLD MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the year.

THE COLLEGE OF DENTAL SURGEONS OF THE PROVINCE OF QUEBEC PRIZE.—A prize of twenty-five dollars awarded to the student, registered in Quebec, obtaining the highest standing in the practical examinations of the Final Year.

THE LIEUT.-GOVERNOR'S SILVER MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

THE LIEUT.-GOVERNOR'S BRONZE MEDAL AND A PRIZE IN BOOKS.—Awarded to the student obtaining the highest marks in written and practical subjects in the Third Year examinations.

The following prizes are given by The Mount Royal Dental Society:

FIRST AND SECOND YEAR PRIZES.—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

CHESTER MACNAGHTEN PRIZE (see page 185).

LOAN FUND

KELLOGG LOAN FUND.—A sum of money has been placed at the disposal of the Faculty of Dentistry by the Kellogg Foundation to assist dental students who have real financial need and are not eligible for assistance under other bursary and loan schemes. Applicants should consult Dean A. L. Walsh.

H. OPEN TO STUDENTS IN THE FACULTY OF LAW

For scholarships and bursaries open to undergraduates in all Faculties see page 183.

SCHOLARSHIPS AND PRIZES

THE "THOMAS ALEXANDER ROWAT SCHOLARSHIP".—Founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is approximately $75. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1945-46.

THE "CHARLES ALBERT NUTTING PRIZE".—Founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is the income from a capital sum of $1,000, and is approximately $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

THE MONTREAL BAR ASSOCIATION PRIZE.—The Montreal Bar Association offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association offers a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

THE "ALEXANDER MORRIS EXHIBITION".—This exhibition of the value of $50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

THE ADOLPHE MAILHIOT MEMORIAL PRIZE.—This prize established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty, usually, but not necessarily, in the graduating class.

THE CHIEF JUSTICE GREENSHIELDS PRIZE.—This prize in Criminal Law endowed by Mrs. Greenshields in 1943 in memory of her husband, the late Chief Justice Robert Alfred Ernest Greenshields, is awarded to the member of the graduating class in Law having the highest standing in Criminal Law throughout the college course. The value of the prize is $30.

CHESTER MACNAGHTEN PRIZE (see page 185).

MEDALS

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

THE "ELIZABETH TORRANCE GOLD MEDAL".—Founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

No medals, prizes or scholarships will be awarded, if, in the opinion of the Faculty, there is no candidate of sufficient merit.

For awards open to Graduate Students see pages 208 and 213.

I. OPEN TO STUDENTS IN THE FACULTY OF MUSIC

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of $1,500.00 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES.—Full-time students studying for the Licentiate in Music or for the Bachelor of Music degree are eligible for University Bursaries. For details see page 183.

J. OPEN TO STUDENTS IN MACDONALD COLLEGE

OPEN TO STUDENTS IN AGRICULTURE AND HOUSEHOLD SCIENCE

FACULTY SCHOLARSHIPS AND BURSARIES.—The Faculty of Agriculture has an annual fund of $500 for scholarships and bursaries for degree students. For further particulars apply to the Registrar, Macdonald College.

OPEN TO STUDENTS IN AGRICULTURE

I.O.D.E. SCHOLARSHIP.—A scholarship of $200 ($100 for 2 years) is offered by the Provincial Chapter of the Imperial Order Daughters of the Empire to the British student taking the highest marks in the final examinations of the Second Year. Applications are to be sent to the Educational Secretary, I.O.D.E., The Provincial Chapter of Quebec, Mount Royal Hotel, Montreal.

THE QUEBEC WOMEN'S INSTITUTE BURSARY.—The Quebec Women's Institute provides a bursary of $50 to the student entering the second year of the Diploma Course who (1) is a professional farmer's son, (2) has spent at least one season, seed time to harvest, in his father's employ on the farm, (3) intends to return to his father's employ for at least one year on the completion of his course, (4) and who, if more than one candidate presents himself as fulfilling the above three requirements, takes the highest marks in Agriculture and Agricultural Engineering in the first year or, if he is the only candidate, obtains at least second class standing in these two subjects.

THE BORDEN COMPANY LIMITED SCHOLARSHIP.—A scholarship of the value of $200 is offered by the Borden Company Limited of Canada to encourage promising students who take a course of study of value to the dairy industry. The award will be made to a student on completion of his third year, half payable at the beginning of the second term. The following factors will be considered in making the award: high standing in the subjects of his course during the third year with emphasis on dairying, dairy chemistry, or dairy bacteriology; participation in student organizations and college activities; co-operation with students and staff in the advancement of the interests of the student body and the College as a whole.

OPEN TO STUDENTS IN THE SCHOOL OF HOUSEHOLD SCIENCE

THE FREDERICA CAMPBELL MACFARLANE SCHOLARSHIP.—A Scholarship has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institutes from 1913 to 1919. This scholarship is of the value of $50.00, is open only to students from a rural district of the Province of Quebec, and is awarded to the student in any of the first three years of the Home Economics course who obtains the highest percentage of marks possible in the final examination.

BURSARY IN THE SCHOOL FOR TEACHERS

I.O.D.E. BURSARY.—The Municipal Chapter I.O.D.E. offers a bursary of $350, tenable in the School for Teachers, Macdonald College. The award is made by a committee of the Municipal Chapter on the basis of Scholarship and need. Applications are to be sent to the Educational Secretary, I.O.D.E., The Municipal Chapter of Montreal, Mount Royal Hotel, Montreal.

CHRISTIE-STORER SCHOLARSHIP (See page 181).

K. OPEN TO STUDENTS IN THE FRENCH SUMMER SCHOOL

FRENCH SUMMER SCHOOL SCHOLARSHIPS.—A number of Resident Scholarships are offered to teachers and to students of colleges and universities who are qualified to enter the Advanced Section C. (See French Summer School Announcement.)

IV. GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

For scholarships and bursaries open to students in all Faculties see page 183.

DEMONSTRATORSHIPS AND INSTRUCTORSHIPS.—In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

A. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO McGILL GRADUATES AND TO GRADUATE STUDENTS REGISTERED IN THE UNIVERSITY

OPEN TO GRADUATES IN ALL FACULTIES

†THE McGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—Founded by the McGill Chapter of the Delta Upsilon Fraternity in memory of the members of that Chapter who gave their lives in the Great War. This scholarship is open to graduates of the University in all faculties. The Selection Committee will consider:—(*a*) the general scholarship of the candidate; (*b*) his need of financial assistance for further study; (*c*) the general usefulness to the community of the special branch of study he proposes to follow; (*d*) the likelihood that the candidate will reflect credit on the University. The present value of the scholarship is about $700.

This scholarship will not again be awarded until after the present war

BRITISH COUNCIL SCHOLARSHIPS.—The British Council offers four scholarships each year to women graduates of the Dominion Universities. These scholarships are tenable in Great Britain and enable specially qualified women to study wartime conditions in their particular field, e.g. in Education, Economics, Public Health, Social Service or Medicine.

The value of the scholarships is £300 together with rail and steamer fares to England and back.

†Not to be awarded until further notice.

Candidates must be at least 23 years old on the 1st March and women with some practical experience in their chosen sphere are preferred. Applications from McGill graduates should be made through the Registrar and must reach him not later than the 16th February 1945.

Further particulars and application forms may be obtained in the Registrar's Office.

PRIZES

CHESTER MACNAGHTEN PRIZE (see page 185).

OPEN TO GRADUATES IN ARTS AND SCIENCE

†THE MOYSE TRAVELLING SCHOLARSHIPS.—Two scholarships of the value of $1,250 each, tenable for one year, founded by the late Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University."

These scholarships are awarded by the Faculty of Arts and Science, one for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

These scholarships will not be awarded again until after the present war.

THE ALLEN OLIVER FELLOWSHIP.—This fellowship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A.,* Lieutenant, 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." The fellowship is awarded annually to the student who rstands highest in first class honours in the Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science at McGill University or elsewhere. The present value of the scholarship is about $400.

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†Not to be awarded until further notice.

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*Lieut. Oliver was an honour graduate in 1915 in the Department of Economics and Political Science.

†The Guy Drummond Memorial Scholarship.—This scholarship, endowed by the late Guy M. Drummond, and tenable for one year, is awarded annually to a graduating student in the Department of Economics and Political Science. The value of the scholarship is the income derived from a capital sum of $45,190 to cover a year of study divided between Paris and McGill and leading to the M.A., or, in special circumstances, a whole academic year in Paris and then a year studying for the M.A. at McGill. The holder may attend the Graduate Faculty of McGill University for one year before or after his study in Paris, or may go to France in the summer following his appointment, attend the Ecole Libre from its autumn opening until the New Year, and then return to resident work at McGill, being eligible for the M.A. degree in May of that year.

The award is made by the University Scholarships Committee upon the recommendation of the Department of Economics and Political Science and the Department of French.

Alexander Mackenzie Fellowship in Political Science.—This Fellowship, of the annual value of $600 is tenable by a graduate of any accredited university. Such tenure is conditional upon the acceptance by the Department of Economics and Political Science of the applicant as being entitled to admission to the Faculty of Graduate Studies and Research in the field of Political Science. A certain amount of tutorial and teaching work will be required of the holder of the fellowship.

Under certain conditions, which may be ascertained in consultation with the Department of Economics and Political Science, this fellowship may be held for a second or third year.

Each candidate should send (i) a letter of application, (ii) a certified copy of his academic record, (iii) not more than three testimonials. These should reach the Registrar, McGill University, Montreal, before the 30th of April. There are no application forms.

The Philip Carpenter Fellowship founded in 1892 by a donation of $7,000 from Mrs. Philip P. Carpenter for "a post-graduate teaching fellowship or scholarship in Natural Science or some branch thereof in the Faculty of Arts of McGill College."

The LeRoy Memorial Fellowship in Geology.—(See page 211).

The Dr. T. Sterry Hunt Research Scholarship in Chemistry.—(See page 211).

Adams Scholarship in Geology.—(See page 211).

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†Not to be awarded until further notice.

BURSARIES

LOGAN BURSARIES IN GEOLOGY.—(See page 193).

OPEN TO GRADUATES IN ENGINEERING

THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—This fellowship of $500, established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the Battle of Passchendaele, in October, 1917 is awarded annually to a student who desires to proceed with post-graduat studies in Geology at McGill University. The recipient may be called upon to assist in the teaching work of the Department. The award is made by the Chairman of the Department of Geological Sciences in consultation with the Principal.

THE DR. T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—This Scholarship of the value of $600 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc., M.Eng. or Ph.D. and have shown high capacity for research. The holder may be required to assist in the Department as a demonstrator.

RESEARCH FELLOWSHIPS.—Two research and teaching fellowships have been established in the Department of Mining and Metallurgical Engineering—one of $600 endowed in memory of the late Sir William Dawson, one of $550 endowed by the late Dr. James Douglas. These fellowships are awarded annually if suitable candidates offer.

DR. B. J. HARRINGTON BURSARY IN MINING ENGINEERING.—This bursary of approximately $150 a year, supported by graduates in Mining Engineering in memory of the late Professor B. J. Harrington, is awarded annually if a suitable candidate offers.

THE JOHN BONSALL PORTER SCHOLARSHIP.—This scholarship, founded by Dr. W. W. Colpitts (B.Sc., 1899), is open to graduate students proceeding to the degree of M.Eng. in Civil, Mechanical, or Electrical Engineering, preference being given to students in Civil Engineering. The value of the scholarship for 1944-45 will be $200. Applications should be in the hands of the Dean of the Faculty of Engineering not later than July 30th, 1944. In the case of graduates of other universities these must be accompanied by certified statements of academic standing and letters of recommendation.

ADAMS SCHOLARSHIP.—A scholarship of $300, presented by the late Professor F. D. Adams, will again be available in 1944-45 for a graduate student in the Department of Geological Sciences.

Loan Fund

Waddell Loan Fund.—Loans from this Fund, which was founded by J. B. Waddell, Esq., may be made to graduate as well as undergraduate students in any Department of Engineering. Application should be made to the Dean of the Faculty of Engineering.

OPEN TO GRADUATES IN ARCHITECTURE

†The Hugh McLennan Memorial Scholarship.—Established by the Hon. John Stewart McLennan and Dr. Francis and Miss Isabella McLennan in memory of Hugh McLennan, son of the Hon. John Stewart McLennan, killed at the Battle of Ypres in 1915. The amount of this scholarship is $1,000. It will be awarded to the student graduating in Architecture who during his course has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

OPEN TO GRADUATES IN MEDICINE

FELLOWSHIPS

The A. A. Browne Memorial Fund.—The sum of $10,000 has been received by the Faculty of Medicine of McGill University from the committee of the A. A. Browne Memorial Fund. This fund is used either for a fellowship to be known as the "A. A. Browne Memorial Fellowship", or for a grant to a department to provide technical assistance, equipment, and supplies for medical research. The fellowship is open to graduates of any recognized Medical School and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

The James Douglas Research Fellowship.—The sum of $25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

The John McCrae Fellowship.—A fellowship of approximately $800, founded in 1918 as a yearly donation by Mr. H. J. Fuller, of New York, in memory of the late Lt.-Col. John McCrae, for the purpose of scientific research in Experimental Surgery. Established as a permanent fellowship in 1920 by Mr. Fuller and the Canadian Fairbanks-Morse Company.

The Clara Law Fellowship, founded in 1927 by Mrs. J. R. Fraser for the furtherance of research in the laboratory of the Department of Obstetrics and Gynæcology, is of the value of $1,200 per annum.

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†Not to be awarded until further notice.

THE DR. J. FRANCIS WILLIAMS FELLOWSHIP IN MEDICINE AND CLINICAL MEDICINE of $500, founded by the late J. Francis Williams, M.D., to be awarded on the result of a special examination open to students of the final year who have had a high general scholastic standing and who are approved by the Chairman of the Department of Medicine.

THE DR. J. H. B. ALLAN SCHOLARSHIP of $240, founded by a bequest of Mrs. Agnes W. Allan, mother of Dr. J. H. B. Allan.

THE JAMES COOPER ENDOWMENT "for the Study and Teaching of Internal Medicine" was established by a bequest from the late James Cooper. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment and supplies for medical research.

THE BLANCHE HUTCHINSON RESEARCH FUND was established by a bequest from the late Mrs. Frank L. Hutchinson. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment, and supplies for medical research.

†THE OSLER MEMORIAL SCHOLARSHIP.—This scholarship is normally awarded by the Canadian Medical Association every third year to a candidate nominated by the Faculty of Medicine "in order that such candidate may pursue studies to advance the knowledge of medicine and to improve the teaching of clinical medicine". Candidates must be graduates of not more than ten years' standing and, other things being equal, preference will be given to a graduate of McGill University.

CASGRAIN AND CHARBONNEAU AWARD.—An annual award of $500 given by the firm of Casgrain and Charbonneau for original work leading to improvement in the prevention or treatment of disease. Candidates must be graduates of McGill University or students in the Faculty of Graduate Studies and Research of McGill University. Applications should be made in writing to the Dean of the Faculty of Medicine before the 1st April.

THE H. W. MOLSON FELLOWSHIP IN CANCER.—This research fellowship, endowed by Mr. H. W. Molson, has an annual value of approximately $1,000. The work will be carried on in the Royal Victoria Hospital under the direction of the Strathcona Professor of Pathology and the Professor of Obstetrics and Gynæcology. Applications should be made to the Dean of the Faculty of Medicine.

OPEN TO GRADUATES IN LAW

†THE MACDONALD TRAVELLING SCHOLARSHIP.—This Scholarship was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French

†Not to be awarded until further notice.

language." The value of the scholarship is approximately $900. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec.

THE EDWIN BOTSFORD BUSTEED SCHOLARSHIP.—Founded by the will of the late Mrs. Edwin Botsford Busteed and awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is the income from a capital sum of $6,000, or approximately $240, which will be paid to the scholar when his thesis has been accepted by the Faculty.

OPEN TO GRADUATES IN AGRICULTURE

MACDONALD COLLEGE ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the Great War, 1914-1918; created, in connection with the Centennial Campaign, 1920, through subscriptions of graduates, undergraduates, members of the staff and other friends, of a present value of $200 and available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work in Agriculture at any college or university of recognized standing. The holder is chosen by a committee appointed by the executive of the Macdonald College Alumni Association, and applications should be addressed to Mr. F. S. Thatcher, General Secretary, Alumni Association, Macdonald College, P.Q.

WALTER M. STEWART SCHOLARSHIPS IN AGRICULTURE.—Two scholarships of $500 each are offered to postgraduate students at Macdonald College. One may be held by a postgraduate student whose undergraduate work was taken at the Institute Agricole d'Oka, one by a student from the Collège de Sainte Anne de la Pocatière. Application for these scholarships must be made to the Directors of the two colleges concerned.

B. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO GRADUATES OF McGILL AND OF OTHER UNIVERSITIES

†Science Scholarships Granted by Her Majesty's Commissioners for the Exhibition of 1851.—These scholarships, of at least £275 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, "to those branches of science, the extension of which is especially important to our national industries." The holder is required to devote himself to research, the particular nature of which must be approved by the Commissioners.

Three of these Scholarships which are tenable at any institution approved by the Commission are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain Universities, among which McGill is included.

Candidates should apply, not later than April 1st, through the Chairman of their Department. Details concerning the regulations may be obtained from the Registrar's Office.

Royal Society of Canada Fellowships.—Ten annual research fellowships, endowed by the Carnegie Corporation, will probably be awarded in 1946. They are of the value of $1,500, are open to men and women on equal terms, and are tenable normally outside Canada only. Candidates should have at least a Master's degree and their age should not exceed 32. In 1944 the last day for receiving applications was February 1st. Further particulars may be obtained from the Registrar's Office.

Alexander Mackenzie Fellowship in Political Science.—(See page 209).

The Dr. J. H. B. Allan Scholarship. (See page 213).

The A. A. Browne Memorial Fund. (See page 212).

The Casgrain and Charbonneau Award. (See page 213).

The James Cooper Endowment. (See page 213).

The Blanche Hutchinson Research Fund. (See page 213).

The John McCrae Fellowship. (See page 212).

The Osler Memorial Scholarship. (See page 213).

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†Not to be awarded until further notice.

†The Rhodes Scholarships.—These scholarships of £400 a year are tenable for two years at the University of Oxford. A third year may be granted under certain conditions.

Candidates must be British subjects with at least five years domicile in Canada and be between the ages of nineteen and twenty-five.

Two scholars are chosen annually from the Province of Quebec, and men students in any Faculty may apply.

Applications must be in the hands of the Secretary of the Provincial Selection Committee not later than November 10th.

Further details of tenure, eligibility and qualifications, and application forms may be obtained from the Registrar's Office, or the Provincial Secretary, Mr. Henri G. Lafleur, 507 Place d'Armes.

National Research Council Scholarships.—Bursaries, Studentships, Fellowships, and Scholarships, which in 1944 had the values of $250 (plus tuition fees), $650, $750, and $1,000 respectively, will probably be awarded in 1945 by the National Research Council to highly qualified graduates in Science. They are open on equal terms to men and women, whose age should not exceed 30. In 1944 the last day for receiving applications was March 1st. Further particulars may be obtained from the Registrar's Office.

†Post Graduate Scholarships Granted by the Imperial Order Daughters of the Empire.—Nine are offered annually—one for each province. They are of the value of $1,400 and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and Imperial History, the Economics and Government of the Empire and Dominion, or any subject vital to the interests of the Empire."

Full details may be obtained from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is Room 1111, Mount Royal Hotel, Montreal.

University Women's Federation Travelling Scholarship.—The Scholarship of the Canadian Federation of University Women, of the value of $1,250, available for study and research work, is open to any woman holding a degree from a Canadian University, who is not more than thirty-five years of age at the time of the award. In general, preference is given to those candidates who have completed at least one or two years of graduate study and have a definite course of study or research in view. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself.

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†Not to be awarded until further notice.

The choice of the University at which the successful candidate is to pursue her study or research work is left to the Committee of Selection in consultation with the candidate.

Full information can be obtained from the Convenor of the Scholarship Committee, Dr. Cecilia Krieger, University of Toronto, Toronto, Ont.

Applications and testimonials must be received before February 1st.

UNIVERSITY WOMEN'S FEDERATION JUNIOR SCHOLARSHIP.—This scholarship of the value of $850 is open to any woman graduate of a Canadian University who is not more than twenty-five years of age on February 1st, 1945. The award will be based on evidence of character, intellectual achievement and promise. The place of study must be approved by the Scholarship Committee. Preference will be given to students who have studied in only one university and who desire to continue their studies in another.

Full information can be obtained from the Convenor of the Scholarship Committee, Dr. Cecilia Krieger, University of Toronto, Toronto, Ont.

Applications and testimonials must be received before February 1st.

PROVINCE OF QUEBEC POST-GRADUATE SCHOLARSHIPS.—A number of scholarships are granted annually by the Government of the Province to graduates who wish to complete their studies outside Canada. These scholarships are each of the value of $1,200 per annum. They are awarded in the first instance for one year, but their tenure may be extended to three years if the work of the holder is satisfactory. Candidates must be bona-fide residents of the Province of Quebec and preference is given to those who intend to carry on teaching or research work in Canadian Universities or schools on their return to Canada. Each letter of application should state the candidate's age next birthday, his subject of study and the institution he plans to attend, and should be accompanied by two testimonials from members of his faculty and two additional references from responsible citizens. Applications should be addressed to the Registrar, and submitted not later than the 1st of April. The awards are generally announced by the Provincial Government at the end of July each year.

C-I-L- FELLOWSHIPS.—Two post-graduate fellowships in Chemistry each of the value of $750 and tenable in the Department of Chemistry were established in 1941 by the Canadian Industries Limited. These fellowships are known as the C-I-L- Fellowships and are open to any British subject who is a graduate of a recognized University. Normally the fellowships will be tenable for one year only, but in special cases they may be renewed for a second year. For further particulars consult the Registrar's Office.

INCO SCHOLARSHIPS.—Three scholarships of $500 each were established in 1941 by the International Nickel Company of Canada. They are tenable by a student working for his master's degree in Chemical Engineering, Mining, Metallurgy, or Geology. One of the three awards is tenable at McGill University. For further particulars consult the Registrar's Office.

THE H. L. BLACHFORD SCHOLARSHIP.—A Scholarship of the value of about $750 tenable by a student proceeding to his master's or doctor's degree in Organic Chemistry will be granted for the session 1944-45. For further particulars consult Dr. R. V. V. Nicholls, Department of Chemistry.

THE CONSOLIDATED MINING AND SMELTING COMPANY FELLOWSHIP.—The Consolidated Mining and Smelting Company of Canada, Limited, offers annually a Fellowship of $750 for research related to non-ferrous metals, fertilizers, and chemicals; an additional amount not to exceed $450 will be available for special equipment or other expenses, or for extension of the research beyond the end of the academic session. The Fellowship is open to graduates in Science, Engineering, or Agriculture, or any approved University, who will normally be registered at McGill as graduate students proceeding to a higher degree. The topic of research will be selected in consultation with the Dean of the Faculty of Graduate Studies and Research, and with the donors. Applications must be made to the Registrar not later than May 31st.

OTHER SCHOLARSHIPS

Notices of other scholarships and fellowships are received by the University from time to time. Students may consult these in the Registrar's Office.

V. SCHOLARSHIPS, PRIZES AND MEDALS IN THE VARIOUS SCHOOLS OF THE UNIVERSITY

OPEN TO STUDENTS IN THE LIBRARY SCHOOL

THE ETHELWYN M. CROSSLEY SCHOLARSHIP FUND is available for women students. Details may be obtained on application to the Secretary of the School.

OPEN TO STUDENTS IN THE SCHOOL OF PHYSICAL EDUCATION

PRIZES AND MEDALS

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

GOLD MEDAL.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

CLASS OF 1925 SHIELD.—A Shield presented by the Class of 1925, is awarded to the student attaining the highest standing in practice teaching throughout the course and is held for one year by the student.

LIEUTENANT-GOVERNOR'S SILVER MEDAL.—This medal is awarded to the graduate student who attains the highest general proficiency throughout the course.

CLASS OF 1916 CUP.—A Cup, presented by the Class of 1916, is held for one year by the senior student who attains the highest standing in practical work.

LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—This medal is awarded to the junior student who attains the highest general proficiency in the sessional examinations.

(N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Committee.)

OPEN TO STUDENTS ENTERING THE SCHOOL FOR GRADUATE NURSES

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University (Junior Matriculation standing or its equivalent). Preference will be given to applicants with experience in the nursing field.

1. Alexandra Hospital.
   The Board of Governors offers a scholarship of $100.00 in addition to maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.
2. Association of Registered Nurses of the Province of Quebec.
   A scholarship of $350.00 to a member of the Association of Registered Nurses of the Province of Quebec whose qualifications are acceptable to McGill University for any course selected in the School for Graduate Nurses.
3. Children's Memorial Hospital School of Nursing.
   The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.
4. Montreal General Hospital School of Nursing.
   1. The Mildred Hope Forbes Memorial Scholarship, established by Mrs. Norman Wilson in memory of the late Mildred Hope Forbes, is offered to a graduate of the Montreal General Hospital School for Nurses.
   2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship. Only members of the Alumnae Association are eligible.
5. Royal Victoria Hospital School of Nursing.
   1. The Board of Management offers an annual scholarship for a year's study at the School for Graduate Nurses.
   2. The Mabel F. Hersey Scholarship is given annually by the Board of Governors for a year of post-graduate study at the School for Graduate Nurses, McGill University.
   3. An annual scholarship is awarded from the Dr. Garrow Fund for postgraduate work.
   4. The Emma Thomas Scholarship is offered for postgraduate study.
6. Shriners' Hospital for Crippled Children.
   A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses offered by the Board of Governors of the Montreal Unit to Registered graduate nurses who have affiliated as student nurses at the Shriners' Hospital.

7. Victorian Order of Nurses for Canada.

The Victorian Order of Nurses for Canada offers a limited number of scholarships of $400.00 each to nurses taking a year's postgraduate course in Public Health Nursing. Candidates who have been on the staff of the Order for two months or more will be given preference.

8. The Homoeopathic Hospital of Montreal.

The Alumnae Association of the Homoeopathic Hospital School for Nurses offers a scholarship of $200.00 for a year's study at the School for Graduate Nurses. Only members of the Alumnae Association are eligible.

W. K. Kellogg Foundation Loan Fund.—Through the generosity of the Foundation, this fund has been established to assist graduate nurses who cannot otherwise meet the expenses of a year of study at the school. For further particulars applicants should consult the Director of the School for Graduate Nurses.

VI. MEDALS AND PRIZES IN THE DEPARTMENT OF PHYSICAL EDUCATION

Due to wartime conditions it may be necessary to postpone the presentation of medals until after the war.

I. For Men.

The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the University Committee on Physical Education. Every competitor for the silver medal is required to lodge with the judges, before the examination, a certificate of good standing in the graduating class, signed by the Dean of the Faculty to which he belongs, and the medal is not awarded to any student who fails in his examination for the degree.

Further information concerning the regulations and the work of the Department may be obtained from the Director, Dr. A. S. Lamb, Sir Arthur Currie Memorial Gymnasium-Armoury.

II. For Women

Strathcona Prizes.—The Department of Physical Education in conjunction with the M.W.S.A.A., offers a prize for competition in each of the four years of the Faculty of Arts and Science. Details of the competition are announced at the beginning of each session.

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McGILL UNIVERSITY

MONTREAL



McGILL COLLEGE

(FACULTY OF ARTS AND SCIENCE)

1944-1945

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ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D., Docteur de l'Université (Montreal.)

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

Director of Extra-Mural Relations.....Wilfrid Bovey, B.A., LL.B., D. Litt., LL.D., F.R.S.C., M.L.C. (Que.)

Librarian.....G. R. Lomer, M.A., Ph.D., F.L.A.

Warden of the Royal Victoria College...Muriel V. Roscoe, M.A., Ph.D.

Warden of Douglas Hall.....R. D. Maclennan

FACULTY OF ARTS AND SCIENCE

Dean of the Faculty.....Hon. Cyrus Macmillan, M.A., Ph.D., P.C., M.P.

Assistant Dean.....W. H. Hatcher, M.Sc., Ph.D., F.R.S.C.

Chairman, Humanities Group.....W. D. Woodhead, Ph.D.

Chairman, Biological Sciences Group..H. E. Hoff, M.D., D.Phil.

Chairman, Physical Sciences Group...D. A. Keys, Ph.D., F.R.S.C.

Chairman, Social Studies and Commerce Group.....C. A. Dawson, Ph.D.

Director of the School of Commerce....E. F. Beach, M.A., Ph.D.

COUNCIL

The Dean, the Principal, and the four Group Chairmen form the Council of the Faculty.

STANDING COMMITTEES OF THE FACULTY OF ARTS AND SCIENCE

SESSION 1944-45

THE B.A. ADVISORY COMMITTEE

Cyrus Macmillan (Chairman)
E. R. Adair
J. L. Darbelnet
C. A. Dawson
W. L. Graff
John Hughes
R. D. Maclennan
C. T. Sullivan
W. D. Tait
W. D. Woodhead

THE B.COM. ADVISORY COMMITTEE

E. F. Beach (Chairman)
J. P. Day
Cyrus Macmillan
H. Tate
D. R. Patton
W. H. Hatcher
B. H. Higgins
B. S. Keirstead
P. Vineberg

THE B.Sc. ADVISORY COMMITTEE

J. J. O'Neill (Chairman)
W. H. Hatcher
C. L. Huskins
O. Maass
G. W. Scarth
A. N. Shaw
D. L. Thomson

The B.A., B.Sc., and B.Com. Advisory Committees also act together as a General Advisory Committee

THE SCHOLARSHIPS COMMITTEE

D. A. Keys (Chairman)
E. R. Adair
W. H. Hatcher
C. L. Huskins
C. E. Kellogg
Cyrus Macmillan
H. G. Files
J. J. O'Neill
W. D. Woodhead
Muriel V. Roscoe

THE TIME TABLE COMMITTEE

C. H. Carruthers (Chairman)
W. H. Hatcher
C. Currie
H. Tate

COMMITTEE ON ADMISSIONS AND STANDING

B.A. Section

Cyrus Macmillan (Chairman)
E. F. Beach
R. D. Maclennan
H. Tate
W. D. Woodhead

B.Sc. Section

D. L. Thomson (Chairman)
W. H. Barnes
W. H. Hatcher
D. A. Keys
J. J. O'Neill

A complete list of the teaching staff of the University, including the Faculty of Arts and Science, is printed as a separate announcement which may be obtained from the Registrar's Office.

THE FACULTY OF ARTS AND SCIENCE

General Information.

The undergraduate work of the University in Arts, in Pure Science, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science. The Dean of McGill College is the Dean of the Faculty of Arts and Science.

The work of the students who are candidates for the degree of Bachelor of Commerce (B.Com.) is supervised by the Director of the School of Commerce which is an integral part of the Faculty.

Women Students.

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men.

Entrance Requirements.

Students may be admitted into the Faculty as full undergraduates after passing either the Junior or the Senior Matriculation Examination or an equivalent examination, in the requisite subjects. A student with incomplete matriculation qualifications is not admitted as an undergraduate.

Period of Study for a Degree.

The bachelor's degree may be obtained only by students who have regularly attended the prescribed courses for at least four years after being admitted into the first year or for at least three years after being admitted into the second year. Students are admitted to advanced standing in the third year only under exceptional circumstances and at least two full years of resident study in the Faculty are ordinarily required before the bachelor's degree can be granted.

Classes of Students in the Faculty.

(1) *Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who have been given permission by the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, medals, bursaries or prizes of any description and may not read for an Honour Degree.

(3) *Partial Students:* Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the Chairmen of the Departments concerned that they have sufficient ability to do the work of the courses they desire to take. A student who has tried and failed to pass the matriculation in a subject is not allowed to register as a partial student in that subject.

In the courses they are taking, partial students must fulfil all the requirements of classroom work and tests prescribed for regular students.

Subject to the above limitations, lectures are open to partial students in both honours and general classes. Should a partial student acquire or subsequently be accorded regular standing by vote of the Faculty, his partial courses may by permission of the Faculty be counted toward a degree. Partial students are not eligible for medals, scholarships, bursaries, or prizes.

AGE OF ADMISSION

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

APPLICATION FOR ADMISSION TO THE FACULTY OF ARTS AND SCIENCE

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Completed applications must reach the Registrar before September 10th.

The number of admissions is limited and the College is not bound to accept applicants who have passed the required examinations.

ENTRANCE REQUIREMENTS

FOR THE SESSION OF 1944-45

See General Announcement for details.

1. A student may apply for admission to the First Year of the B.A., B.Sc., or B.Com. courses after passing in the required subjects of the School Certificate Examination or one of the examinations recognized by the University as the equivalent.

2. A student may apply for admission to the Second Year of these courses after passing in the required papers of the School Certificate and Senior School Certificate Examinations or their recognized equivalents. Only in exceptional circumstances is a student who had not written and

passed the School Certificate Examination or its equivalent admitted by Senior School Certificate. At least a good average second class standing in Senior School Certificate or its equivalent is required for entrance to the Second Year.

A student who has been admitted to the first year and who has failed to advance to the second year is not permitted to obtain advanced standing by Senior School Certificate, but is required to take the regular supplemental examinations of the first year if he desires to proceed in his course.

3. Students who are admitted to the B.A. courses by other than McGill School Certificate or Quebec High School Leaving Examinations may, with the approval of the Dean, be exempted from the necessity of having matriculated in a classical language. A student who applies for admission to second year after having taken the first year at some other college or university may, with the approval of the Dean, be granted exemption from the compulsory Classics requirement in the matriculation and the first year B.A. course.

Candidates for admission to the second year of the B.A. course may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the School Certificate or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the School Certificate, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

4. Students may be admitted to the second year in the B.A. course with School Certificate, German or Greek or Spanish as one of the five subjects required if they have not previously taken that subject for the School Certificate.

5. Full details of these examinations are given in the School Certificate Announcement which may be obtained from the Registrar's Office.

ADMISSION TO THE SECOND AND THIRD YEARS OF THE FACULTY

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous university work.

REGISTRATION

1944

Thursday the 28th of September is Freshman Day and all students entering the Faculty of Arts and Science for the first time are required to attend a meeting to be held in Moyse Hall on that morning at 9 o'clock.

Registration in all years will start on Friday the 29th of September and will finish on the following day.

After September 30th all registration is done in the Registrar's Office and a special late registration fee must be paid (see the General Information Pamphlet included in this Accouncement).

No student will be admitted after October 15th except by special permission of the Dean.

Women students of the Faculty, after registration, are required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the Royal Victoria College not residing with their parents or guardians in Montreal, who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

CHANGING COURSES

Students may change the courses for which they have registered provided that the changes do not conflict with the regulations and that the change is made not later than the 15th of October. NO CHANGES CAN BE MADE AFTER THIS PERIOD. Application to change courses must be made to the Dean's Office.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

Each undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered, and, unless otherwise instructed by the Dean, must follow the regular work of his year towards this degree.

There are no specially organized courses of study in the Faculty for students intending, at the end of their First, Second or Third Year, to enter one of the other Faculties and such students are advised, before registering for the first time in the Faculty of Arts and Science, to acquaint themselves with the entrance requirements laid down by these other Faculties (see the General Announcement).

Students who have completed with good second class standing three years of the General Course leading to the Arts degree and two years in the Faculty of Medicine will, on application, be recommended by the Faculty of Arts and Science for the B.A. degree, if they have satisfied all the specific requirements of the First, Second, and Third years for the B.A. degree as to subjects, and in each of the second and third years taken three courses in Arts subjects so chosen as to fulfil the requirement of continuation study or its equivalent.

Applications for the Arts degree from students in Medicine who completed three years of the course before this regulation was enacted will be considered by the Faculty on their merits and according to the regulations in effect at the time when they were registered in the Faculty.

Students completing three years in the course leading to either the Arts or the Science degree and two years in Medicine are entitled to apply to the Faculty of Arts and Science for the degree of B.Sc. Students will not however be recommended for the B.Sc. degree unless they have satisfied the specific requirements for that degree or their equivalent. Students, with high distinction in the first three years of the B.Sc. course who maintain that standing in the first two years in Medicine at McGill will be granted the degree with distinction or great distinction.

A minimum of two years in the Faculty of Arts and Science is required for admission into the Faculty of Law. Nevertheless, candidates proceeding to the Bar of the Province of Quebec must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British University, and satisfy the Bar examiners that they have successfully completed "the regular course in philosophy" in an approved university. Students are advised to take this course in philosophy before entering the Faculty of Law. The following courses are available: Philosophy 1, 2, 3, and 4 (see page 303).

ATTENDANCE

1. Students of the first and second years and all partial students (page 241) and students on probation (page 247) are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Dean.

Excuses for absences in excess of one-eighth are entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates are filed, and, if they are accepted, the Dean gives the student a statement excusing the absences covered; this must be shown to all the professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late". Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lecture are marked absent.

MID-SESSIONAL EXAMINATIONS

There are no regular mid-sessional examinations in January except in courses which are given only in the first term, and in these courses the examination may be held in May with the other final examinations if the Department so desires. Members of the teaching staff may, however, give from time to time such interim examinations as they think necessary.

FINAL EXAMINATIONS

The final examinations are held in April and May.

PASS MARK AND CLASSES

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

ADVANCEMENT TO REGULAR STANDING IN ANY YEAR

An undergraduate is in regular standing only if he has completed all the courses of his previous years.

An undergraduate who has not passed all his examinations in May will have his standing determined in September, on the results of the regular supplemental examinations.

REGULATIONS CONCERNING SUPPLEMENTAL EXAMINATIONS

A student who has failed in one or more courses is expected to write the regular supplemental examinations in these courses in the following September.

A student who fails to pass a supplemental examination in September or who is prevented by illness or other compelling reason from writing, may apply to the Dean for permission to write the next regular examination, normally in May, provided that there is no conflict in the examination time-table.

All applications for supplemental examinations must be made to the Dean in writing and must reach the office of the Dean before September 1st (for the September supplemental examinations), December 1st for the regular examinations of first term courses and March 15th for the May sessional examinations if written as supplemental examinations.

The fee for all supplemental examinations, including the regular examinations of the first term or of the session is $10 for each paper.

The fee must accompany the written application and is payable to McGill University.

ADVANCEMENT WITH CONDITIONS

If after the supplemental examinations in September a student still has a failure in only one full course or two half-courses of the year he is attempting to complete, he may proceed to the following year *conditioned* in this course or in these two half-courses.

A student who has been conditioned in any course for a year is not promoted until the condition is removed. As an example, a student of the second year conditioned in a first year course must complete this course before he can enter the third year.

A student may remove a condition either by passing a supplemental examination in September or by taking the regular examination in the course as a supplemental or, if the course is not compulsory, by substituting for it a different course, by permission of the Dean. The condition is not removed if the student fails to pass such a substituted course.

The student must register for the substituted course at the beginning of the session and pay a special fee of $10.00 for the substitute course (one full course or two half courses). There will be no supplemental fee required in the case of substitute courses.

FAILURE TO ADVANCE: PROBATION

1. A student who after the September supplemental examinations is not qualified to proceed either as a regular or as a conditioned student is placed *on probation.*

   Examples:—A second year student who has failed to remove a first year condition, or a student who has failed in more than one full course of the past session.

2. A student remains on probation until his deficiencies are removed.

3. A student on probation is required to take a year of study consisting of at least four courses. Courses required for the student's degree must be repeated in the year of probation if the student has previously failed in them. The remainder of the courses are selected with the approval of the Dean.

4. All the courses of the year of probation must be passed before the student will be admitted to regular standing.

5. Courses taken to fulfil the requirements of the year of probation can not be credited to a subsequent year of regular standing.

WITHDRAWAL FROM THE FACULTY

Students whose records do not justify their continuance in the Faculty may be requested to withdraw.

FEES

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

SPECIAL FEES IN ARTS AND SCIENCE.

1. *High School Diploma Course for Graduates.* Students in the Graduate Year leading to the High School Diploma pay a University fee of $125. This does not include the fee of $20 for the special course in teaching French, Music, and Drawing (see page 279).

2. *Conditioned Students.* Special fee for an additional course repeated or substituted (one full course or two half courses) $10.00.

3. Students of the Faculty of Arts and Science who are permitted by the Dean to take lectures in the School of Commerce as part of their regular course, pay an additional fee of $10.00 for each course in Commerce.

4. Graduates of the Faculty taking undergraduate lectures for which no academic credit is sought pay one-half the partial fee, with a maximum of one hundred and fifty dollars. Graduates of the Faculty and Graduates of other Universities attending full courses in affiliated theological colleges who are taking undergraduate lectures for which credit is sought will pay the regular partial fee, with a maximum of one hundred and fifty dollars. This does not apply to courses for which there is a special fee.

DATES OF PAYMENT.

Fees are due and payable at the Bursar's Office during the hours of 9 a.m. to 1 p.m. or 2.30 to 4.00 p.m., Saturday 9 a.m. to 12 noon, on the following dates:

Friday, September 29th.
Saturday, September 30th.

If desired, fees may be remitted by mail on or before the due dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

SCHOLARSHIPS, PRIZES, MEDALS, AND LOAN FUNDS

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

DEGREES AND COURSES OF STUDY

The Faculty of Arts and Science offers courses of study leading to three degrees:

Bachelor of Arts.
Bachelor of Science.
Bachelor of Commerce.

The courses offered by the Faculty are grouped in four ways in order to secure a co-ordination and integration of the courses of study—viz.: the Humanities, Social Studies and Commerce, Physical Sciences, and Biological Sciences.

A course of study for the Arts degree is predominantly concerned with the Humanities, comprising language, literature, and philosophy, and the Social Studies, economics, education, history, political science, sociology.

A course of study for the Science degree emphasizes the Physical Sciences, mathematics, chemistry, geology, and physics, and the Biological Sciences, anatomy, bacteriology, biochemistry, botany, genetics, physiology, psychology and zoology.

For details of the Commerce course see the Announcement of the School of Commerce.

In the case of both the Arts and the Science degrees the course of study includes one or more subjects from other groups than the particular one in which the major part of the course of study lies.

There are two distinct kinds of degrees conferred in Arts and Science, the General Degree and the Honours Degree.

A student proceeding to a General Degree has a wide range of subjects from which to choose his courses but he must concentrate from the Second Year onward on two subjects called *Continuation Subjects* and he must select one or more courses in other subjects so that there may be a proper distribution of his studies. The continuation subjects are chosen from a list of those which are laid down as appropriate to the degree for which the student is a candidate. A full course (or two half-courses) must be taken each year in each of these two continuation subjects. The elective courses necessary to make up the work of each year should be chosen by the student so that he may fulfil (*a*) the requirements of that particular year and (*b*) the prerequisite requirements of any course that he wishes to take in the following year.

When the student's record during his Second, Third and Fourth Years of the General Course averages a high second class standing a special award of Distinction is made at graduation. When the record averages first class standing the award made is Great Distinction.

A student proceeding to an Honours Degree chooses either (a) one subject or (b) two cognate subjects in which to specialize. He will also take courses in other subjects selected with the approval of the department or departments in which he is studying. The honours courses normally begin in the Second Year, though in the case of students of exceptional merit they may be commenced in the Third Year. The student must attain at least second class standing each year in order to continue in the course for the honours degree. The whole record during the Second, Third and Fourth Years is taken into consideration at graduation and honours are awarded by the Faculty on the recommendation of the department or departments in which the student has elected to study.

A student who is qualified by matriculation to proceed to the B.A. or B.Sc. degree and who does not know at the beginning of his first year which degree he desires to obtain may qualify to enter the second year leading to either of these degrees by taking in his first year—English, Mathematics, a Classical Language, Physics and Chemistry.

Subjects and Courses Required for the Degree of Bachelor of Arts

Every candidate for the B.A. degree must meet certain requirements whether he is proceeding towards an Honours or a General degree. A course in English, in Classics (Greek or Latin), and in Mathematics is required in the First Year of study.

With the Dean's permission a student may be allowed to replace Mathematics by a first year course in another subject in which he has shown marked proficiency and which is in accordance with the trend of the studies that he is proposing to pursue. A student may also be granted, with the Dean's permission, exemption from the first year Classics requirement if he has been admitted to McGill on some other basis than that of (a) McGill School Certificate Examination, (b) Quebec High School Leaving Examination.

There is further required of all candidates for the degree a course in a modern foreign language, which may be taken in any year.

Where a student chooses to begin the study of a language in order to meet either the classics or the modern language requirement he must take and pass a further course subsequent to the elementary one to satisfy this language requirement. This rule applies, for example, to a student who begins the study of Greek or German or Spanish (there is no beginning course in French); in every case the elementary course alone will not satisfy the requirement for the B.A. degree. On the other hand a beginning course

is given full credit when it is taken as a simple elective which is not to be counted towards satisfying the language requirement, except that in the Fourth Year such an elementary course is treated as only a half-course.

For the General B.A. degree there is further the requirement of one course in a science subject, which may be taken in any year. The combination of the two half-courses, Botany 1A and Zoology 1B, is also acceptable as filling this requirement.

A student proceeding to an Honours degree is not required to take a course in Science.

In each of the First and Second Years five courses must be taken, that is, normally fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses, making twelve hours per week. The third hour each week in each individual course may be devoted to group conferences.

First Year of the B.A. Course (for Both General and Honours Degrees)

(*a*) *Compulsory Courses:*
English 2.
*Latin or Greek.
*Mathematics.
*(See above page 250 for the exemptions in Classics or Mathematics in exceptional cases.)

(*b*) *Elective:*
Two of the following:—
History.
Greek or Latin (if not already taken)
French.
German.
Spanish.
Science (Physics 1 or 1B or Chemistry 1 or 16 or Botany 1 or Zoology 1 or Biology 1).
Music.

Details of the work in each subject are given on pages 263 to 320.

Students seeking to qualify for the High School Diploma of the Province of Quebec have certain additional requirements to fulfil in both the First and Second Years. See page 278.

The student is normally free to elect *two* courses in the First Year which, together with the three compulsory courses, complete the total

of five required for that year. In choosing his courses, however, the student is advised by those who are registering him to give careful consideration to his selection. Three points must be remembered:

A. He has to consider the desirability of choosing a course in a modern foreign language; this may be taken in any year, but it is preferable to take it not later than the Second Year, because a student who subsequently elects to take an Honours course in some other subject than a foreign language may find it difficult to take this compulsory language course in the Third or Fourth Year when he is likely to be fully occupied with his Honours studies.

B. Unless he is intending to take an Honours course he has to choose, at some time or other during his four years, one of the science courses.

C. If he has in view taking an Honours course he must be careful to select the course in the First Year which is the prerequisite for such Honours study in the Second Year. A student who intends to study a subject either for Honours or Continuation is cautioned to look up the requirements of the appropriate departments, given on pages 263 to 320.

D. Before being admitted to Honours study in History the student is expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a first year college course following matriculation Latin or, at the discretion of the Department, by high ranking in Latin in the matriculation examination.

E. A student who intends to enter the Faculties of Medicine or Dentistry upon the completion of his third year must elect both Mathematics and Physics in his first year.

ADVANCED COURSES IN THE FIRST YEAR

Some departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the departments when lectures actually commence and there is in such cases no separate registration for them.

Students of scholarship standing entering the first year may, with the approval of the Dean, take second year courses in subjects for which they are especially qualified.

INTERIM TESTS

There are two regular interim tests for all students of the First Year, the first being held near the middle of November and the second during the week preceding the Christmas vacation.

The test is usually the equivalent of a standard examination of one hour.

Students who fail in more than one-third of these tests are not allowed to be members of a College athletic team, to hold office in any College society, or to take part in any major student activity.

THE GENERAL B.A. CURRICULUM IN SECOND, THIRD AND FOURTH YEARS

At the beginning of the Second Year a student proceeding to a General B.A. degree must choose two subjects from those listed below in Division I. These two subjects are designated Contination Subjects and are to be studied during the Second, Third and Fourth Years. A full course (or two half-courses) must be taken *each* year in each of the Contination Subjects. The additional courses necessary to make the total of five for Second Year, and four for each of the Third and Fourth Years, may be chosen from any of the subjects shown in either Division I or Division II listed below. The student in choosing his elective courses may seek the advice of one of the departments in which he chooses a continuation course. A student may select only those courses, for which he has the prerequisites laid down by the department in which such courses are given, and he is responsible for seeing that the courses chosen do not conflict as regards hours of lectures or laboratory periods.

A student is allowed to take an extra course only if he has obtained at least a second class average in his standing of the previous year.

SUBJECTS OF STUDY OFFERED FOR THE ARTS DEGREE

Division I

Economics.
English.
French.
German.
Greek.
History.
Latin.
Mathematics.
Philosophy.
Physics (when taken as a Continuation Subject with Maths.)
Political Science.
Psychology.
Sociology.
Spanish.

Division II

Ancient History.
Bacteriology.
Biochemistry.
Botany.
Chemistry.
Education.
Genetics.
Geology.
Music.
Physics.
Physiology.
Zoology.

A course intended primarily for First Year students may be counted as a full course in the Second Year.

Students who are pursuing a double course in Arts and Science and Divinity (six years at least) may take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts and Science, less a half course each year or a whole course in one year.

Honours lecture courses are open to properly qualified general students.

THE HONOURS B.A. CURRICULUM IN SECOND, THIRD AND FOURTH YEARS

At the beginning of the Second Year a student proceeding to an Honours B.A. degree may elect to take full honours in one subject or half honours in each of two cognate subjects; these subjects must be chosen from the list given in Division I (see above). Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 263 to 320.

Normally when a student takes honours in two subjects, his certificate on graduation will indicate that the work done in each of these two departments amounts to only half a full Honours course in that department: e.g. First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half). But in the departments of Classics and of Economics and Political Science each of which is divided into two sections—Classics into Latin and Greek and Economics and Political Science into Economics and Political Science, honours in each of these sections is equivalent to half-honours in another department and can be so combined; therefore the certificate on graduation will indicate these merely as honours: e.g. First Class Honours in Greek and Second Class Honours in Latin, or First Class Honours in Economics and Second Class Honours in History (one-half).

The conditions for entering Honours courses in Second Year are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the departments in which Honours are elected must be obtained.

(c) No student may take Honours in a subject in which he has failed to attain at least second class standing in his First Year.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes, and if the department is satisfied that his knowledge of the subject is sufficient

to enable him to reach the standard of Honours by two more years' study, be allowed to take up the Honours course in that subject at the beginning of his Third Year.

Honours courses in the Second Year consist of 15 hours per week and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work also involves wide reading and in addition to the actual subjects of lectures, study in the general subject selected, in accordance with a definitely prescribed programme. Attention is drawn to the fact that lectures are not given on all parts of the work, and that the examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

In the Second Year a student registering for Honours in one subject only, fulfils the requirements of fifteen hours by taking a minimum of two courses or six hours in his Honours subject, and, in addition, such other courses in other departments (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined Honours in two subjects fulfils the requirement of fifteen hours by taking two full courses in each Honours subject, or twelve hours altogether, and, in addition, one other course (making a total of fifteen hours), such as the two departments under which he is studying may direct. In regard to Honours courses for the Third and Fourth years the student should consult the regulations of the individual departments under which he is working.

Departments are at full liberty to recommend their Honours students to take one or more courses in cognate subjects as the equivalent of courses in their own departments.

Honours students who fail to attain second class honours standing at the end of the Second or Third Year must revert to the General course in their next and following year or years and fulfil its requirements unless they obtain special leave to continue their honours work from the department or departments interested.

An Honours student who has failed in any subject in the Third Year examinations is not allowed to continue his Honours course except with the consent of the Faculty.

A student's whole record during his Second, Third and Fourth Years will be considered in awarding Honours at graduation.

Students in Honours courses who fail to attain second class honours at graduation, or who succeed in attaining second rank honours only in one of two combined courses, must revert to the list of General students and if they are unable to satisfy the requirements of the General B.A. they will not be granted a degree.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected.

SUBJECTS AND COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF SCIENCE

An undergraduate may proceed either to a General or an Honours B.Sc. degree; as the distinction between these is not made until the second year (or, in some cases, the third year), there is a common curriculum to be followed by all first year students.

First Year

English 2.
Mathematics 1.
Physics 1.
Chemistry 1 and 1L.
Elective Course.

Elective Subjects

Botany 1A and Zoology 1B.
French.
Geology 1.
German.
Greek.
History.
Latin.
Music.
Spanish.

Pre-engineering students who have matriculated with only elementary mathematics may substitute the special course in mathematics for Mathematics 1 and the Elective Course, so that they may attain during the year the standard required in mathematics for entrance to 1st year Engineering.

In special cases a qualified student may be granted permission to take either Botany 1, or Zoology 1 as the Elective Course. It is recommended that students intending to take an Honours course in Biological Science elect Botay 1A and Zoology 1B. More advanced courses are available also in Chemistry, Mathematics and Physics for those specially qualified or contemplating Honours.

For general information on Change of Course, on Attendance, on Examinations and Supplemental Examinations, and on Advancement from Year to Year see pages 243, 245, 246; on Distinction in the General Course see page 249; on special requirements for the High School Diploma see page 287; and on Interim Tests see page 252.

THE GENERAL B.Sc. CURRICULUM IN THE SECOND, THIRD AND FOURTH YEARS

In each of these years five courses are required; these courses must be spread over at least four subjects, and must be selected from the groups given below. The student is also required to pursue a continued study of two subjects during the major part of his last three years for the General degree. The normal sequence of courses in any subject chosen for continuation is shown in Group I below. Since courses in Bacteriology, Biochemistry, and Physiology are usually begun in the third year, a student is not obliged to choose these subjects for continued study until the beginning of his third year; in other cases he may commence his continuation subjects at the beginning of his second year. In any year a specially qualified student may be allowed, upon the recommendation of the department concerned, to substitute a more advanced course for any of those listed.

A student is not allowed to take an Extra Course unless he has obtained at least a second class standing in his previous year's work.

Second Year Requirements

Three subjects from Group I; one course from Group III and one course from Group I or II or III.

Third Year Requirements

Two subjects from Group I; one course from Group I or II; one course from Group III, and one course from Group I or II or III.

Fourth Year Requirements

The same as for Third Year, the two subjects previously chosen from Group I being continued throughout this year. It is permissible, however, to drop one of these continuation subjects in the fourth year provided that two courses be taken in the remaining continuation subject; in this case the student's courses may be spread over three instead of four subjects.

GROUP I (Continuation Subjects)

SUBJECT	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biochemistry.	See below	1.	3, or 2 and 4.
Botany.	1 or 2 or 3.	2 or 3.	2 to 8.
Chemistry.	2 or 3 or 4.	2 or 3 or 4.	Any one advanced course.
Genetics.	1.	2 to 6.	2 to 6.
Geology.	1, or 5 and 6.	2 to 13.	2 to 13.
Mathematics.	2 or 15.	16 or 3 or 4, and/or 5.	3 or 4 or 8 or 17.
Physics.	2 or 2P.	3A and (13B, 4).	(8A, 9) or (8A, 11) or (5A, 6C).
Physiology.	1B.	1B or 1A and 2B or 3.	1A and 2B or 3.
Zoology.	1 or 2, or 3 and 4.	2 or 3 and 4, or 7.	2 or 3 and 4, or 7.

If Biochemistry is to be taken as a continuation subject in the Third Year, Chemistry 2 and Physiology 1B must be taken in the second year.

A student who has not completed Botany 1 or Zoology 1 must obtain permission from the department concerned before proceeding to more advanced courses in these subjects.

Students selecting Physics as a continuation subject must also select Mathematics in the first three years.

GROUP II (Non-Continuation Subjects)

SUBJECT	COURSES
Bacteriology.	1S.
Biochemistry.	1, 2, 4.
Botany.	1 to 8.
Chemistry.	2, 3, 4, 5, 6, 8, 9, 10.
Geology.	1 to 13.
Genetics.	1 to 6.
Histology.	1.
Mathematics.	2, 15, 16, 3, 4, 5, 8.
Physics.	2P, 2, 3A, 3B, 4, 5A, 8A, 9.
Physiology.	1A, 1B, 2B, 3.
Zoology.	1, 2, 3, 4, 7.

GROUP III (Arts Subjects)

Economics and Political Science.
Education.
English.
French.
German.
Greek.
History.
Latin.
Music.
Philosophy.
Psychology.
Sociology.

In selecting courses students should consult the departments concerned.

Details of the courses are given on pages 263 to 320.

HONOURS COURSES FOR THE B.Sc. DEGREE

Honours Courses begin normally in the second year and are offered in Bacteriology, Biochemistry, Botany, Chemistry, Functional Biology, Geological Sciences, Mathematics, Mathematics and Physics (combined), Physiology, and Zoology. Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 263 to 320.

The conditions for entering Honours courses are as follows:—

(a) A student must not have failed in more than one subject at the final spring examinations in the First Year.

(b) The sanction of the Dean and of the Chairmen of the Departments in which Honours are elected must be obtained.

(c) No student may take Honours unless he has obtained at least a second class standing in the first general course offered in the subject elected.

Attention is drawn to the fact that lectures are not given on all parts of the work. The examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

Honours students who fail to attain second class honours standing at the end of the Second or Third Year (and Third Year in the cases of Bacteriology, Biochemistry, Physiology, and Zoology) must revert to the General Course in subsequent year or years, unless they obtain special permission to continue their honours work from the department or departments concerned.

An Honours student who has failed in any course of his Honours subject in the Third Year Examinations is not allowed to continue his Honours course except with the consent of the Faculty.

Students in Honours courses who fail to attain second class Honours at graduation, or who succeed in attaining second class Honours only in one of two combined subjects, must revert to the list of General students.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected. A student's whole record during his Second, Third and Fourth years will be considered in awarding Honours at graduation.

HONOURS B.Sc. IN BIOLOGICAL SUBJECTS

First Year: As for General B.Sc. (Botany 1A and Zoology 1B, or, in special cases, Botany 1A and 1B, or Geology 1, or Zoology 1A and 1B, should be taken as the Elective Course).

Second Year: The second year requirements have been made to give the student the widest possible latitude. Approaches to any particular biological subject may be found under the respective departmental announcement, together with the detailed curricula for the third and fourth years.

General second year requirements are as follows:—
Chemistry 2, 4, 10.
Three courses out of Botany 1.
Genetics 1.
Geology 1.
Physiology 1B.
Zoology 1.
Chemistry 3.
Mathematics 2 or 15.
Physics 2 or 2P.

HONOURS B.Sc. IN FUNCTIONAL BIOLOGY

Students taking the First and Second Year curricula for the Honours degree in Biological subjects may proceed, as already indicated, to Honours in Bacteriology, Biochemistry, Botany, Physiology, or Zoology. Alternatively they may proceed to this Honours course in Functional Biology, postponing final specialization in one or other of the subjects listed above, or in Genetics, until postgraduate years. The degree in Functional Biology affords a balanced study of animals and plants as living organisms, and is a basic training for any biological science.

Permission to take the course must be obtained from the Chairman of the Biological Sciences Group.

Curriculum

Note: Students are reminded that courses chosen in any year may affect their freedom of choice in subsequent years either because of time-table conflicts or because certain prerequisite courses have not been taken.

Students must submit their proposed programme of studies to the Group Chairman and must obtain his approval before they will be permitted to register for this Honours course.

Prerequisite. General First Year B.Sc. course with the required standing. Botany 1A and Zoology 1B, or Botany 1 or Zoology 1, should be taken as the Elective course.

2nd Year As for Honours B.Sc. in Biological subjects, including the completion of Botany 1 and Zoology 1.

3rd Year. Five courses out of:

Bacteriology 1S.
Biochemistry 1.
Botany 2.
Chemistry 3.
Genetics 1, or one full course from 2, 4, 6.
Mathematics 2 or 16, or 3.
Philosophy 1.
Physics 2P or 2.
Physiology 1B, 1A, 2B or 3 (one full course)
Zoology 2, 3, 4, 5 (not more than 2 full courses)

4th Year. Five courses out of:

Bacteriology 1S.
Biochemistry 1, 2, 4.
Botany 2, 5, 6.
Chemistry 3.
Genetics 1, 2, 4, 6.
Mathematics 2 or 3 or 16.
Physics 2 or 3A.
Physiology 1B, 1A, 2B, 3.
Zoology 2, 3, 4, 5.

ENGINEERING PHYSICS

This course is intended to train men for research or academic positions, and is open only to students accepted for the Honours Courses in Mathematics and Physics. Subject to the approval of the Chairmen of the Departments of Electrical Engineering and Physics, it is available to

(1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the Second Year Honours Course in Mathematics and Physics.

and (2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics.

Third Year

Mathematics 6 and 7.
Physics 5B, 6B (or 8B), 6C.
Electrical Engineering 113, 114.

Fourth Year

Mathematics 10 or 11.
Physics 5A, 6A, 7A, 7B, 8A, 8B (or 6B), 9.
*Summer Thesis or Shop Work.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards the M.Sc. degree taking some of the fourth year Electrical Engineering courses as advised by the Chairmen of the Departments of Physics and Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Engineering as are approved by the Faculty of Engineering.

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*This is required in the case of students proceeding later to the degree of B.Eng.

COURSES OF LECTURES IN ARTS AND SCIENCE

The hours indicated for lectures and laboratory periods are only tentative and should be confirmed at registration; arrangements for the Military Training of students necessitate revision of time-tables. Courses in the Faculty of Arts and Science may be cancelled because of insufficient registration.

ANATOMY

Professor of Anatomy.....C. P. MARTIN
Associate Professor of Histology.....H. SELYE
Assistant Professor of Anatomy.....D. S. FORSTER
Asst. Professor in Histology.....C. P. LEBLOND

Before registering for the following course, students must consult the Chairman of the department to ensure that they are qualified to undertake the work.

MICROSCOPIC ANATOMY

1. HISTOLOGY.

The course, which corresponds to Anatomy 5 in the medical curriculum, consists of three weekly classes during the first half year. The course begins at the opening of the medical session, in the beginning of September.

Text-book: Bailey, Textbook of Histology.

ARCHITECTURE

HISTORY OF ART (SCULPTURE AND PAINTING) AND AESTHETICS (THEORY OF DESIGN). 24 lectures each. Dr. Lismer.

These lectures may be taken by students in the Faculty of Arts and Science. If later these courses are expanded, the question of credits will be considered.

BACTERIOLOGY AND IMMUNITY

Professor.....E. G. D. MURRAY**
Associate Professor.....FREDERICK SMITH
Assistant Professors.....T. E. ROY*, C. D. KELLY, D. S. FLEMING
Lecturer.....W. H. MATHEWS*

(All lectures and laboratory courses are given in the Department of Bacteriology, Pathological Institute.)

COURSE 1. ELEMENTARY MEDICAL BACTERIOLOGY AND IMMUNITY.

Thirty lectures and 63 hours' practical work, commencing September 3rd. Available to Medical and Dental students on the satisfactory completion of their studies in Anatomy, Physiology, Histology and Biochemistry.

*On military service.
**On leave of absence.

COURSE 1. S. ELEMENTARY BACTERIOLOGY.

Available to students in the Faculty of Arts and Science and to graduate students.

Mon., Wed., Fri., at 10 a.m. Lab., Tue., Fri., 2-5 p.m. Second Term.

Students must provide themselves with microscopes; these can be hired from the Purchasing Department. 41 lectures and 75 hours of practical work.

COURSE 2. APPLIED MEDICAL BACTERIOLOGY AND IMMUNITY AND THE PROCESSES OF INFECTIOUS DISEASES.

Available to Medical students only.

COURSE 3. BACTERIOLOGY AND IMMUNITY *for Honours B.Sc.*

Available only for Honours students in their Fourth Year. Partial students in the Faculty of Arts and Science and in the Faculty of Graduate Studies are admitted if they have suitable qualifications.

6 lectures and 12 hours practical work a week throughout the year. This is equivalent to 3 full courses. Biochem. 5 (lectures only) is compulsory. One other course is to be selected by the student.

Students must provide themselves with microscopes; these can be hired from the Purchasing Department.

Text books:—Hans Zinsser & S. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir & J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett & James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley & G. S. Wilson, The Principles of Bacteriology & Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Précis de Microscopie (Masson et Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins); E. O. Jordan and W. Burrows, Text-book of Bacteriology (W. B. Saunders Co.); Frederick P. Gay, Agents of Disease and Host Resistance (Charles C. Thomas); Practical Bacteriology, Haematology and Animal Parasitology, E. R. Stitt, P. W. Clough and M. C. Clough (P. Blakiston Sons & Co.); An Introduction to Bacteriological Chemistry, C. G. Anderson (Macmillan Co. of Canada); A text-book of Medical Bacteriology, D. L. Belding and A. T. Marston (Appleton-Century); The Biology of Bacteria, A. T. Henrici (Heath & Co.); Fundamentals of Bacteriology, Martin Frobisher, Jr. (W. B. Saunders Co.), N. P. Sherwood, Immunology (C. V. Mosby Co.), H. Zinsser, J. F. Enders and L. D. Fothergill, Immunity Principles and Application in Medicine and Public Health (Macmillan Co.), J. A. Kolmer and L. Tuft, Clinical Immunology Biotherapy and Chemotherapy (W. B. Saunders Co.), R. W. Fairbrother, A Text-book of Medical Bacteriology (W. Heinemann, Ltd.).

CURRICULUM FOR B.SC. HONOURS IN BACTERIOLOGY

Prerequisite:—An aggregate standing of high second class must be obtained in the subjects submitted for the First Year and good standing maintained in subsequent years.

The Chairman of the Department should be consulted in selecting subjects to be studied in the Second and Third Years.

The following course of study has been found suitable for most students but may be modified to suit individual cases.

First Year: First year B.Sc. preferably including Botany 1A, Zoology 1B.

Second Year: Physiology 1B; Botany 1B; Zoology 1A; Chemistry 2, 4, and 10; Genetics 1; and one other course.

Third Year: Biochemistry 1 and 1L; Physiology 2A; Botany 33; Histology 1 or Zoology 5; Bacteriology 1S.

Students of Medicine who have done sufficiently well in their Medical Bacteriology and in their Medical studies in general will be admitted to Course 3.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

BIOCHEMISTRY

Professor.....D. L. Thomson
Assistant Professors.....O. F. Denstedt, R. D. H. Heard
Sessional Lecturer.....Harry Sobel
Demonstrator.....Lucille Carlton
Research Associates.....Dorothy Osborne, H. W. Woodward

1. General Physiological Chemistry.

1. Lectures: Monday, Wednesday, Friday at 9. . Professor Thomson.

Text-books:—Bodansky, Introduction to Physiological Chemistry (Wiley); Cameron, Text-book of Biochemistry (Macmillan); Williams, Text-book of Biochemistry (van Nostrand).

1 L. . Laboratory:—Two 3-hour periods weekly. A synopsis of the course is issued by the Department.

Note:—This course is given in Medicine, Dentistry and Arts and Science simultaneously and falls in the second and third quarters of the first year medical course. Prerequisites are Chemistry 2, Physiology 1B; Physiology 1A, if not already taken, should be taken concurrently.

2. ENDOCRINOLOGY.

Lectures:—Wednesday at 3.....Professor Heard.

Text-books:—Cameron, Recent Advances in Endocrinology (Blakiston or Churchill); Grollman, Essentials of Endocrinology (Lippincott).

Note:—Students should have taken, or should take concurrently with this course, Biochemistry 1, Physiology 1A. This course is also taken by second year medical students.

3. ADVANCED BIOCHEMISTRY.

Lectures:—Monday, Wednesday, Friday, at 2...Professor Denstedt.

Text-book: — Harrow and Sherwin, Text-book of Biochemistry (Saunders); Hawk and Bergeim, Practical Physiological Chemistry (Blakiston).

3 L. Laboratory:—12 hours weekly, times to be arranged. First Term. For Honours students in the Department only.

Note:—Prerequisites are Biochemistry 1, Chemistry 4.

4. NUTRITION.

Three lectures per week (First Term).....Professor Thomson.

Text-book:—Sherman, Chemistry of Food and Nutrition (Macmillan).

Note:—Biochemistry 1 is prerequisite.

5. METABOLISM.

Lectures:—Wednesday, Friday at 11.....Professor Thomson.

5 L. Laboratory:—12 hours weekly, times to be arranged. Second Term. For Honours students in the Department only.

Note:—Biochemistry 1 is prerequisite.

6. PROTEIN PHYSICAL CHEMISTRY.

Three lectures per week (Second Term).....Professor Thomson.

Text-books:—Schmidt, Chemistry of the Amino Acids and Proteins (Thomas); Cohn and Edsall, Proteins, Amino Acids and Peptides (Reinhold).

Note:—Prerequisites are Biochemistry 1; Chemistry 4; Biochemistry 3 should be taken concurrently.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

HONOURS COURSE IN BIOCHEMISTRY

First Year

First Year B.Sc. (Botany 1A and Zoology 1B recommended.)

Second Year

Zoology 1A and Physiology 1B.
Chemistry 2, 3, 4 and 10.

Third Year

Biochemistry 1 and 2.
Physiology 1A, 2B, or 3.
Chemistry 5 or Zoology 5.
Bacteriology 1S.
1 additional course.

Fourth Year

Biochemistry 3, 4 and 6. 3L and 5L.

One other course, selected from Chemistry 5, Genetics 4, Physiology 2B or 3, etc.

Candidates for the Honours B.Sc. Degree in Biochemistry are expected to attain at least second class standing in all subjects, and 75 per cent in Biochemistry 1.

BOTANY

Professor.....GEORGE W. SCARTH
Associate Professors.....MURIEL V. ROSCOE, R. D. GIBBS

1. GENERAL BOTANY. Evolution of the plant kingdom.

First term. Mon., Wed., Fri., at 12. Laboratory Tu. or Th., 2-5.
Professor Gibbs.

GENERAL BOTANY. Structure and function of the higher plants.
Second term. Mon., Wed., Fri., at 11. Laboratory, Tu. or Th., 2-5.
Professor Roscoe.

2A. GENERAL PHYSIOLOGY.

First term: Tu., Th., at 12. Laboratory Thurs. 2-5.
Professor Scarth.

2B. ELEMENTARY PLANT PHYSIOLOGY.

Second term: Tu., Th., at 12. Laboratory Thurs. 2-5.
Professor Scarth.

3. MORPHOLOGY AND TAXONOMY.

Mon., Wed., at 11. Laboratory Wed. 2-5.
Professor Gibbs.

4A. PLANT ANATOMY.

First term: Hours to be arranged.
Professor Roscoe.

*5. PLANT BIOCHEMISTRY.

Tu., Th., at 11. Laboratory hours to be arranged. 6 hours for Honours Students.

Professor Gibbs.

*6. ADVANCED PHYSIOLOGY.

Fri., 2 and 3 Laboratory hours to be arranged.

Professor Scarth.

*7. TECHNICAL BOTANY. BOTANY 1B prerequisite.

A special course for Cellulose Chemistry students. Given in alternate years; next in 1944-45.

Hours to be arranged.

Professors Roscoe and Gibbs.

*8. SPECIAL TOPICS.

Prescribed reading, conference and practical work in selected subjects such as Taxonomy of Special Groups, Ecology, Anatomy, Microtechnique and Biochemistry.

The Staff.

PLANT PATHOLOGY 33 (MYCOLOGY).

Counts as an Honours course in Botany. It is normally given at Macdonald College and hours can be arranged for attendance there one day a week. May be given at McGill if sufficient students register.

HONOURS COURSE IN BOTANY

First and Second Years: The general B.Sc. curriculum (pp. 256-259) suffices provided Botany 1 is included. The general second year requirements for Honours in Biological subjects (pp. 260) is a guide in the choice of courses for the second year but greater latitude is allowed as follows: Chemistry 10 is not essential, Chemistry 4 may be postponed from second to third year, an Arts subject (Group III) is optional, and, if Botany 1 has been taken in the first year, Botany 2 or 4A may be included in the second. Zoology 1 is recommended.

Third Year: Botany 2, 3 and 4A if not already taken.

Fourth Year: Three of Botany 5 to 8. Other courses in 2rd and 4th Year with approval of the department.

The Honours Course in Botany prepares students for graduate work in the departments of Genetics and Plant Pathology as well as Botany. Allowing, as it does for considerable study of other biological subjects it forms also a suitable preparation for the teaching of Biology in schools.

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*Courses for Graduates and Honours Students.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

TEXT BOOKS

General Botany: Brown—The Plant Kingdom (Ginn & Coy.); Coulter—The Story of the Plant Kingdom (Gage & Univ. Chicago Press); Haupt—An Introduction to Botany (McGraw-Hill); Holman & Robbins—Text-book of General Botany (Wiley); Hill *et al*—Botany (McGraw-Hill), Smith, Overton *et al*—Gen. Botany (Macmillan).

Anatomy and Microtechnique: Eames & MacDaniels—Introduction to Plant Anatomy (McGraw-Hill); Jeffrey—Anatomy of Woody Plants (Univ. Chicago Press); Sass—Botanical Microtechnique (McGraw-Hill); Chamberlain—Methods of Histology (Univ. Chicago Press); Johansen—Plant Microtechnique (McGraw-Hill).

Physiology and Biochemistry: Scarth & Lloyd—General Physiology (Wiley); Text books of Plant Physiology by Myer and Anderson (Van Nostrand), Maximov (McGraw-Hill), and Miller (McGraw-Hill); Onslow—Principles of Plant Biochemistry (C.U.P.); Onslow—Practical Plant Biochemistry (C.U.P.); Haas & Hill—Chemistry of Plant Products (Longmans); Morrow and Sandstrom—Lab. Methods in Biochem.

Taxonomy and Morphology: Gray's Manual (American Book Co.); Spotton *et al*—Wild Plants of Canada (Gage); Marie Victorin—Flore Laurentienne; Pool—Flowering Plants (McGraw-Hill); Smith—Cryptogamic Botany (McGraw-Hill); Smith—Fresh Water Algae of the United States (McGraw-Hill); Eames—Morphology of Vascular Plants (McGraw-Hill); Chamberlain—Gymnosperms, Structure and Evolution (Univ. Chicago Press.); Johnson—Taxonomy of Flowering Plants (Century).

Ecology: Weaver and Clements (McGraw-Hill).

Mycology: Bessy—Text of Mycology (Blakiston).

CHEMISTRY

Professors	O. MAASS W. H. HATCHER C. B. PURVES
Associate Professors	J. B. PHILLIPS* J. H. MENNIE W. H. BARNES C. A. WINKLER
Assistant Professors	R. V. V. NICHOLLS J. H. HOLDEN R. BOYER
Lecturers	J. H. ROSS A. S. ROSS

1. GENERAL CHEMISTRY.

Lectures, Mon., Wed., Fri., at 2 and 3.

Section A.—For Matriculants at 2—Professor Barnes.

*On leave of absence for war work.

Section B.—For Beginners at 3—Professor Hatcher.

Text-books:—Hatcher, Introduction to Chemical Science (Wiley); Foster-Alyea, an Introduction to General Chemistry (Van Nostrand); Schlesinger—General Chemistry, third edition (Longmans, Green, 1937).

Laboratory (1L), Tu. or Th., 2-5.

Professor Barnes and Demonstrators.

Text-book:—Barnes—General Chemistry Laboratory Manual, second edition (Renouf).

NOTE: Physics 1 (or its equivalent) is prerequisite unless taken concurrently.

2. ORGANIC CHEMISTRY (ELEMENTARY) (No. 56 Fac. Eng.).
Lectures, three hours.....Professors Hatcher and Boyer.
Laboratory, three hours, Mon., Wed., or Fri. 2-5.
Professors Hatcher, Boyer and Demonstrators.

Text-books:—Lucas, Organic Chemistry (American Book Co.); Wertheim, Organic Chemistry (The Blakiston Co.); Nicholls, An Introduction to Practical Organic Chemistry (Renouf).

NOTE:—Chemistry 1 and 1L and Physics 1 or equivalents are prerequisite to this course.

3. ANALYTICAL CHEMISTRY (ELEMENTARY) (Nos. 53, 54 Fac. Eng.).
(*a*) QUALITATIVE ANALYSIS.
First term: Tu., Th., at 9; laboratory six hours, Mon., Wed., 2 to 5.
(*b*) QUANTITATIVE ANALYSIS.
Second term: Tu., Th., at 9; nine hours laboratory, Mon., Wed., 2 to 5, Sat. 9 to 12.

Text-books:—Curtman, Qualitative Chemical Analysis (Macmillan); Mennie, Laboratory Instructions in Quantitative Analysis.
Professor Mennie and Demonstrators.

4. PHYSICAL CHEMISTRY (ELEMENTARY).
First term: Tu., Th., Sat. at 12. Second term: Tu. at 12.
Professor Winkler.

Text-book:—Maass and Steacie, Introduction to the Principles of Physical Chemistry, second edition (Wiley).

*5. ORGANIC CHEMISTRY (ADVANCED I) (No. 65 Fac. Eng.)
Mon., Wed., at 12.
Laboratory (5L) six hours per week.
Professor Nicholls and Demonstrators.

Text-book:—Fieser, Experiments in Organic Chemistry (Heath).

*Courses for Graduates and Honours Students.

*6. Inorganic Chemistry (Advanced) (No. 72 Fac. Eng.).
Tu., Th., at 10.....Professor Hatcher.
Text-book:—Latimer and Hildebrand, Reference Book of Inorganic Chemistry (Macmillan).

*7. Physical Chemistry (Advanced I) (No. 66 Fac. Eng.).
Fri., at 12.....Professor Winkler.
Loeb: Kinetic Theory of Gases (McGraw-Hill).
3 hours, third year; 6 hours, fourth year.
Professor Winkler, Dr. Ross and Demonstrators.

*7L. Physical and Colloid Chemistry Laboratory (No. 66A Fac. Eng.)
Nine hours.....Professors Maass, Winkler and Demonstrators.
Text-book:—Daniels, Matthews & Williams, Experimental Physical Chemistry, second edition (McGraw-Hill).

8. Quantitative Analysis (Advanced I).
First term: Mon., at 11; laboratory twelve hours, Tu., Th., Fri., 2 to 5, and Sat. 9 to 12.
Prerequisite Chem. 3a and 3b.
Professor Mennie and Demonstrators.

*9. History of Chemistry (No. 74 Fac. Eng.).
Thurs. at 11. (Not given in 1944-45).....Professor Barnes.
Text-book:—Partington, A Short History of Chemistry (Macmillan).

10. Carbohydrates, Fats, Amino-Acids, Resins (No. 58, Fac. Eng.)
Second term: Th., Sat. at 12. Prerequisite Chem. 2.
Professor Nicholls.

*11. Electro-Chemistry. (No. 70 Fac. Eng.).
First term: Two lectures per week, Mon. and Wed. at 9.
Professor Mennie.
References:—Creighton, Electro-Chemistry (Wiley); Glasstone, Electro-Chemistry of Solutions (Methuen).

*12. Physical Chemistry (Advanced II) (No. 66 Fac. Eng.).
Professor Winkler and Dr. Ross.
Text-books:—Taylor: Treatise on Physical Chemistry (Van Nostrand); Hinshelwood: Kinetics of Chemical Change (Oxford). Glasstone: Textbook of Physical Chemistry (Van Nostrand).

*Courses for Graduates and Honours Students.

*15. Colloid Chemistry (No. 75 Fac. Eng.).

Tu., at 11.....Dr. Ross.

Text-book:—Hartman: Colloid Chemistry (Houghton-Mifflin). Weiser: Colloid Chemistry (Giley).

16. The Chemistry of Daily Life.

Tu., Th. at 3.....Professor Hatcher.

Open to B.A. and B.Com. students without laboratory; also to students in the School for Graduate Nurses.

Text-book:—Hatcher, Introduction to Chemical Science (Wiley).

*17. Thermodynamics (No. 76 Fac. Eng.).

First term: Wed. and Fri. at 10.....Professor Winkler.

Second term: Wed. at 12, Fri. at 10.

Text-books:—Steiner: Introduction to Chemical Thermodynamics (McGraw-Hill); Lewis & Randall: Thermodynamics (McGraw-Hill).

*18. Organic Chemistry (Advanced II).

Second term: Mon., Wed., at 10.....Professor Nicholls.

*19. Physico-Organic Chemistry.

Tues. at 10.....Professors Barnes and Hatcher.

(Not given in 1944-45.)

*20. Organic Chemistry (Advanced III).

First term: Nine hours laboratory per week. Professor Nicholls.

*21. Analytical Chemistry (Advanced II).

Wed. at 11; laboratory 9 hours per week in the second term.

Professor Mennie.

*22. Applied Thermodynamics.

Two lectures per week.

23. Science in Economic Life III.

Two lectures per week.....Professor Hatcher.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

B.SC. HONOURS COURSE IN CHEMISTRY

This course begins in the Second Year. First Year students intending to take Honours in Chemistry should consult the Department before the end of the session. Those who have taken Chemistry 1B are normally required to do some additional reading and to pass a qualifying examination at the end of the summer vacation.

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*Courses for Graduates and Honours Students.

Prerequisites: At least second class standing in Chemistry 1 and 1L, Mathematics 1 and Physics 1 or their equivalents.

Second Year: Chemistry 2, 3a, 3b, 4; Mathematics 16 or 3; Physics 2b.

Third Year: Chemistry 5, 5L, 6, 7, 7L, 8, 10, 17.

Fourth Year: Chemistry 7L, 11, 12, 15, 18 20, 21, 22. Engineering 275 (electrometallurgy) may be taken as an optional course.

Note:—Students anticipating specialization in Chemistry are recommended to include Intermediate Mathematics in their Junior Matriculation subjects. If they enter by Senior Matriculation they should include Co-ordinate Geometry in this examination.

CLASSICS

Professors.....{W. D. Woodhead, Clive H. Carruthers
Associate Professor.....Alexander M. Thompson
Assistant Professor.....Paul F. McCullagh**
Lecturer.....E. M. Counsell**

Greek

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin Greek Grammar (Ginn & Co.); Liddell and Scott, Greek Lexicon (abridged or intermediate); Kiepert, Atlas Antiquus (Williams and Norgate); Smith, Smaller Classical Dictionary (Everyman Series, Dent).

1A. Beginners' Greek. First Year.

Tu., Th., Sat., at 9.....Professor Carruthers.

Text-books:—Benner and Smyth, Beginners' Greek Book (American Book Co.); Essays, Selected readings of Greek authors in translation.

1B. Greek. First and Second Years.

Tu., Th., Sat., at 9.....Professor Woodhead.

The Martyrdom of Socrates (Doherty, Clarendon Press); Homer, Iliad vi (Leaf and Bayfield, Macmillan); Odyssey vi (Edwards, Cambridge University Press); Essays; Prose Composition, Sight Translation.

Greek 11, 12 and 13 may be taken by qualified students in the General Course. For further information consult the Chairman of the Department.

Honours Courses in Greek

11. Greek. Second Year.

Tu., Th., Sat., at 9. (Not offered in 1944-1945.)

Plato, Apology and Crito (Burnet, Oxford); Aeschylus, Prometheus Bound (Sikes and Willson, Macmillan); Sight Translation.

**On war service.

12. GREEK. Second Year.

Mon., Wed., Fri., at 9.....Professor Carruthers.

Homer, Iliad 24 (Leaf and Bayfield, Macmillan); Lucian, Menippus and Timon; Essays.

13. GREEK. Third Year.

Tu., Th., Sat., at 12.....Professor Woodhead.

Plato, Laches (Tatham, Macmillan); Euripides, Medea.

14. GREEK. Third Year.

Tu., Th., Sat., at 10.....Professor Woodhead.

Herodotus, Selections (Barbour, Heath & Co.); Aristophanes, Clouds (Merry, Clarendon Press); Plato, Selections (Forman, Macmillan); Sight Translation.

15. GREEK. Fourth Year.

Tu., Th., Sat., at 10.....Professor Woodhead.

Aeschylus, Agamemnon; Aristophanes, Birds (Merry, Oxford), Bucolici Græci (Oxford Classical Text).

16. GREEK. Fourth Year.

Mon., Wed., Fri., at 11.....Professor Woodhead

Aristotle, Ethics (Selections); Plato, Republic (Selections); Sight Translation.

LATIN

All students taking Honours in Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended:— New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent), Kiepert, Atlas Antiquus (Williams and Norgate).

1. LATIN. First Year.

Mon., Wed., Fri., at 10.....

Silva Latina (J. D. Duff, Cambridge); Latin Prose Composition (Franklin & Bruce, Longmans); Translations at sight.

1A. LATIN. First Year (for more advanced students).

Mon., Wed., Fri., at 10.....Professor Carruthers.

Four Latin Authors (Kennedy, Cambridge); Latin Prose Composition (Tracy and Law, Clarke Irwin); Translation at sight.

2. LATIN. Second Year.

Tu., Th., Sat., at 12.....Professor Thompson.

A New Latin Reader, (Franklin and Bruce, Longmans); Elements of Latin Prose Composition (Treadgold, Cambridge).

Third Year Students in the General Course will take Latin 13; Fourth Year Students will take Latin 14.

HONOURS COURSES IN LATIN

11. LATIN. Second Year.

Mon., Wed., Fri., at 11.....Professor Thompson.

Catullus (Simpson, Macmillan): Sallust, Catiline.

12. LATIN. Second Year.

Mon., Wed., Fri., at 12.....(Not offered in 1944-1945.)

Livy xxii (Pyper, Clarendon Press); Virgil, Aenid iv or vi; Horace, Selected Odes (Horace, Oxford Classical Texts), Sight Translation

13. LATIN. Third Year.

Mon., Wed., Fri., at 9.....Professor Woodhead

Selections from Pliny's Letters (Westcott, Allyn and Bacon); Roman Elegiac Poets (Harrington, American Book Co.); Sight Translation.

14. LATIN. Third Year.

Mon., Wed., Fri., at 12.....Professor Thompson.

Virgil, Bucolics (Sidgwick), Georgics IV (Sidgwick); Juvenal, Selections (Duff, Cambridge University Press); Prose Composition.

15. LATIN. Fourth Year.

Tu., Th., Sat., at 11.....Professor Thompson.

Seneca, Selected Letters (Summers, Macmillan); Tacitus, Annals i and iv (Furneaux, Smaller Edition, Clarendon Press); Sight Translation.

16. LATIN. Fourth Year.

Tu., Th., Sat., at 9.....Professor Carruthers.

Lucretius (Selections: Sinker, Macmillan); Horace, Satires and Epistles (Rolfe, Allyn and Bacon).

ANCIENT HISTORY

The Civilization of Greece and Rome: Open to students of all years. May be taken as a half-course in the first or second term except by First Year students or students in Honours Classics.

Tu., Th., Sat., at 11.....Professor Carruthers and.....

The full course is described as History 1B. See also under Department of History.

(This course will not be offered in the session 1944-1945.)

Comparative Grammar

For Third Year Honours Students.

Tu., 2.30-4.00 ..... Professor Carruthers.

Graduate Courses in Classics

See the Announcement of the Faculty of Graduate Studies and Research.

ECONOMICS AND POLITICAL SCIENCE

Professors ..... J. P. Day, B. H. Higgins, B. S. Keirstead
Associate Professor ..... E. F. Beach
Assistant Professors ..... J. T. Culliton*, P. F. Vineberg

1. Elements of Political Economy. Second Year.
   Mon., Wed., Fri., at 11.
   Honours Section ..... Professor Keirstead
   General Section .....
   Tu., Th., Sat., at 10.
   Commerce Section ..... Professor Beach
2. Elements of Political Science. Second Year.
   Mon., Wed., Fri., at 12 ..... Professor Keirstead
3. History of Political Theory. Third Year.
   Tu., Th., Sat., at 9 ..... Professor Keirstead
4. Labour Problems. Third Year.
   First term: Tu., Th., Sat., at 12 ..... Professor Vineberg
5. Money and Banking. Third Year.
   Tu., Th., Sat., at 10 ..... Professor Day
6. Canada: Geographic, Industrial and Economic Problems. Third Year.
   First term: Tu., Th., Sat., at 3 ..... Professor Culliton
   Not given in 1944-45.
7. The Government of Canada. Third Year.
   Second term: Mon., Wed., Fri., at 2 ..... Professor Vineberg
8. Economic Statistics. Third Year.
   Tu., Th., at 4, with laboratory hour ..... Professor Beach

*On war service.

9. CONTEMPORARY ECONOMIC THEORY. Fourth Year.
First term: Tu., Th., Sat., at 10.....

10. INTERNATIONAL TRADE AND TRADE POLICY. Fourth Year.
Mon., Wed., Fri., at 10..... Professor Day

11. BUSINESS CYCLES.
First term: Tu., Th., at 3 to 4.30.....Professor Higgins

12. ECONOMIC DISTRIBUTION. Third or Fourth Year.
Mon., Wed., Fri., at 11..... Professor Day

13. TRANSPORTATION. Fourth Year
First term: Tu., Th., Sat., at 12.....Professor Culliton
Not given in 1944-45

14. GOVERNMENT REGULATION OF INDUSTRY.
Tu., Th., at 2..... Professor Higgins

15. CORPORATION FINANCE. Fourth Year.
Second term: Mon., Wed., Fri., at 12.....Professor Vineberg

16. THE NORTH AMERICAN ECONOMY: Historic and Geographic.
Tu., Th., Sat., at 9.....Professor Higgins

17. ECONOMIC HISTORY.
Tu., Th., Sat., at 9..... Dr. James

18. FISCAL POLICY.
Second term: Tu., Th., Sat., at 12.....Professor Higgins

Economics 2 is a prerequisite to Economics 3 and 7. Economics 1 is a prerequisite to all other courses. Economics 11 is a prerequisite to Economics 18.

HONOURS COURSES

Students taking the full Honours in Economics and Political Science take, in their Second Year, courses 1 and 2, together with three other courses approved by the Department; in their Third Year three full courses (or their equivalent), together with one approved course from another department, and in their Fourth Year three full courses (or their equivalent) together with one approved course from another department.

Students taking half Honours in Economics or half Honours in Political Science (see page 254) shall take Economics 1 and 2 and four full courses or their equivalent, approved by the Department.

Students in the Department of Economics and Political Science are expected to spend a considerable proportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

EDUCATION

Professors.....{JOHN HUGHES, SINCLAIR LAIRD
Associate Professor.....A. B. CURRIE
Sessional Lecturer.....A. ROBERT GEORGE

(NOTE:—There may be certain changes in the courses given for session 1944-45.)

DEGREE COURSES

1. GENERAL PRINCIPLES OF EDUCATION. Third, Fourth or Fifth Years Tu., Thu., Fri., at 4.

2. METHOD AND SCHOOL ORGANIZATION. Fifth Year. Mon., Wed., 4-5.30.

PROFESSIONAL (METHOD) COURSES

METHODS OF TEACHING SPECIAL SUBJECTS (hours to be arranged).

Candidates for the High School Diploma are advised to select at least two of the following options: English, Classics, Social Science, Mathematics, Science, Geography, in addition to the three compulsory special courses in methods of teaching French and two of the following:—Music, Drawing, Geography. A course is also given in Civic, Moral and Religious Education.

THE TRAINING OF TEACHERS

THE HIGH SCHOOL DIPLOMA

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma.

Each candidate must (a) make application upon the authorized forms, (b) be a British subject or satisfy the Central Board that he has begun the necessary proceedings to become such, (c) submit a physician's certificate to show that he is in good health and free from physical defects likely to interfere with his usefulness as a teacher, (d) be a graduate of an approved University, with degree courses, or their equivalents approved by the Central Board of Examiners, as follows:—

(*a*) *Academic.* Courses for two years in the following subjects:—

Courses of the First Year—English, French and any three of the following: History, Mathematics, Science and Latin.

Courses of the Second Year—English, French and any three of the following: History, Mathematics, Latin, Science, a second Science.

It is provided, however, (i) that a canadidate may omit in a succeeding year any three of these subjects, except English, in which he has

taken at least 60% in a previous year, (ii) that a candidate who is beginning an Honours course in the second year is exempt from the foregoing second year requirements.

FURTHER ACADEMIC STUDY.—The post-graduation year of training provides opportunities for further academic study, and completion of any academic requirements remaining unfulfilled. (See below, "Credit for M.A. Degree".)

(*b*) *Professional.*

COMPULSORY POST-GRADUATE YEAR OF PROFESSIONAL TRAINING.

Every student who desires to proceed to the Diploma will be required to take a post-graduate year of training. The course begins early in September and ends in June.

Candidates for this course are advised to consult the Professor of Education for further particulars; and are requested to do this, wherever practicable, before April 15th, to make provisional arrangements.

Candidates must fulfil the following requirements:—

(1) The successful completion of Degree courses 1 and 2 in the Department of Education, either before or after graduation.

(2) Successful completion of three special courses in methods of teaching French, together with two of the following: Music, Drawing, Geography. These courses are held in the Montreal High School and elsewhere on various afternoons throughout the session.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into three parts. The first part is taken in September preceding the Fifth Year and is carried on in the primary and/or high schools of Greater Montreal. The second part of the course is taken on Thursdays from October 15th to March 31st and is carried on in the junior and senior high schools. The third part of the course is taken in May and June after the examinations and is carried on in the primary and/or high schools. At present candidates are enabled to take advantage of at least seventy-five half-days of Practice Teaching.

REGULATIONS OF THE PROTESTANT COMMITTEE
(1940 EDITION)

The Regulations governing the award of the High School Diploma require that candidates must make application upon the authorized form (which may be obtained at the Registrar's Office, McGill University) to Dr. W. P. Percival, Secretary, Protestant Central Board of Examiners, Department of Education, Quebec, P.Q., *on or before the 20th day of July before entering upon the year of training.*

For a complete and revised edition of the Regulations of the Protestant Committee, students are referred to the Education Act of the Province of Quebec (compiled by Dr. W. P. Percival, 1940). Students will note that high school certificates shall be interim when issued, and shall be exchanged for permanent diplomas after two years of successful teaching as certified by an inspector. Only those teachers shall be eligible to act as Principals of High Schools who possess permanent High School Diplomas and have attended successfully at least one session at an approved summer school after receiving their interim certificates.

CREDIT FOR M.A. DEGREE

The work done in the year of training for the High School Diploma, if of sufficiently high standard, is helpful to candidates desiring to proceed to the M.A. degree in Education. (See the Announcement of the Faculty of Graduate Studies and Research.)

ELEMENTARY, INTERMEDIATE, AND KINDERGARTEN DIPLOMAS

The training for these diplomas is given by Macdonald College. (See Macdonald College Announcement).

COURSES FOR TEACHERS OF SPECIAL SUBJECTS

FRENCH. A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

KINDERGARTEN ASSISTANTS. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This Diploma is accepted for entrance to the Kindergarten class, by Macdonald College. (See Macdonald College Announcement.)

PHYSICAL EDUCATION. (This course is given under the Department of Physical Education. See Announcement of the School of Physical Education).

M.A. IN EDUCATION

For details of the M.A. in Education, see the Announcement of the Faculty of Graduate Studies and Research.

ENGLISH

Professors..... CYRUS MACMILLAN, HAROLD G. FILES

Associate Professors..... A. S. NOAD*, T. F. M. NEWTON*

Lecturers..... JOHN DANDO, MARY MACKENZIE, GERTRUDE MASON, JOAN JACKSON

*On war service.

2. ENGLISH (LITERATURE AND COMPOSITION)

General Course.

Tu., Th., and Sat. at 10.....Professors Macmillan and Newton, Mr. Dando, and Assistants.

Weekly conferences hours to be arranged.

ADVANCED COURSES.

Advanced students will be assigned to special sections in which advanced work will be prescribed.

3. ENGLISH COMPOSITION.

Half course. May be taken as a full course by arrangement. An advanced course open to a limited number of undergraduate students who have completed English 2. Application for permission to take this course should be made at the beginning of the session. Registration is limited.

Hours to be arranged.....Professor Files.

4 ENGLISH LITERATURE IN THE NINETEENTH CENTURY.

Tu., Th., Sat., at 11.....Mr. Dando and Assistants.

6. SHAKSPERE (SIX PLAYS.) Half course. First term.

Mon., Wed., Fri., at 10.....Professor Macmillan.

7. ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY.

Mon., Wed., Fri., at 12.....Professor Files.

8. THE LITERATURE AND CULTURE OF THE RENAISSANCE.

Tu., Th., Sat., at 10.....
(Not given in 1944-1945.)

9(a) ENGLISH POETRY FROM 1798 TO 1850. Not given in 1944-45.

9(b) ENGLISH POERTY FROM 1850 TO THE PRESENT TIME. First term.

Mon., Wed., Fri., at 11 .....Professor Macmillan and Assistants.

9a includes Romantic and early Victorian poetry. 9b includes later Victorian and contemporary poetry.

10. The English Novel, from Richardson to the present time, with some reference to foreign work and to related literary types.

Tu., Th., Sat., at 11.....Professor Files.
(Not given in 1944-45.)

11(a) English Literature, from 1450 to the Death of Sidney. First term.

11(b) English Literature (exclusive of Shakspere) from 1586 to 1611. Second term.

Tu., Th., Sat., at 10.....Miss Mason, Professor Macmillan and Assistant.

12. Old English; English Language and Literature up to the Norman Conquest.

Mon., Wed., Fri., at 2.....Miss Mason.

13. Technique of the Drama.

Mon., Wed., Fri. at 12.00; one laboratory period a week on Mon., Tues., Wed., Thurs., or Fri., 3.30 to 5.30 p.m. as convenient to students, Mr. Dando, Miss Jackson and other members of the Department.

Courses 3, 6, 7, 11 and 19 are recommended to students taking this course.

14. Chaucer. First term; Tu., Th., Sat., at 12.....Miss Mason.

15. American and Canadian Literature.

Second term: Mon., Wed., Fri., at 11.....Professors Files and Macmillan.
(Not given in 1944-45.)

16. Comparative Literature.

The influence of English Literature upon the continent of Europe in the 18th and 19th centuries.

Tu., Th., Sat., at 9.....Mr. Dando.

17. Comparative Literature.

The literary influence of the Continent upon England since the Renaissance.

Tu., Th., Sat. at 9.

(Not given in 1944-45.)

19(a) ENGLISH LITERATURE FROM 1611 TO 1660. First term.

19(b) ENGLISH LITERATURE OF THE RESTORATION (1660-1700). Second term.

Mon., Wed., Fri., at 12.....Miss Mason.

20. EARLY ENGLISH: (HALF COURSE) ENGLISH LITERATURE FROM 1200 TO 1450.

Second term; Tu., Thu., Sat., at 12.....Miss Mason.

Open only to students who have taken Course 12, or its equivalent.

21. POLITICAL SATIRE SINCE THE RENAISSANCE.

First term; Mon., Wed., Fri., at 11.....Professor Macmillan.

(Not given in 1944-45.)

22. AN ADVANCED COURSE IN THE TECHNIQUE OF THE DRAMA.

Prerequisite:

English 13 or its equivalent.

The attendance in this course is limited to twenty. Application for admission should be made at the beginning of the session. Mon., Wed., Fri., at 12. Two laboratory periods a week, selected from Mon., Tues., Wed., Th., Fri., 3.30 to 5.30 p.m.

Miss Jackson, Mr. Dando and other members of the Department.

23. STUDIES IN LITERATURE SINCE 1900. Contemporary authors English and American. Open only to those who have taken English 10 or have received the permission of the Instructor. The registration is limited.

Tu., Th., Sat., at 11.....Professor Files.

24. HISPANIC CONTACTS WITH EUROPEAN LITERATURE. A study of relations between the literature of Spain and those of other countries, particularly England and France.

Mon., Wed., Fri., at 3.....

(Not given in 1944-1945.)

NOTE

Courses 4, 6, 7, 13, 15, 19, and 21 are open to students in the Second Year. Registration in 3, 6, 13, 21, 22 and 23 is limited.

Honours Courses

Second Year:—Two courses selected from 4, 6, 7, 8, 9, 13, 15, 19a, 19b.

Third Year:—Four courses.

Fourth Year:—Four courses. A course in a cognate subject may be taken, with the permission of the Department.

Compulsory courses for Honours are 12, and two full courses from the following—6, 7, 9b, 10, 11a, 11b, 14, 19a, 19b, 21 and 23.

English Requirements for the Honours Courses in English and Latin, English and French, and English and German

Second Year:—Consult the Chairman of the Department.

Third Year:—Two courses, chosen with the approval of the Department.

Fourth Year:—Two courses, chosen with the approval of the Department.

Course 12 and one course selected from 6, 7, 9b, 10, 11a, 11b, 14, 16, 17 19a, 19b, 21 and 23 are compulsory.

English Requirements for Honours in English and Other Subjects

Second Year:—Consult the Chairman of the Department.

Third Year:—Two courses chosen with the approval of the Department.

Fourth Year:—Two courses chosen with the approval of the Department.

One full course selected from 6, 10, 12, 14 and 23 is compulsory in either the Third or the Fourth Year.

Final General Examination:—Every candidate for Honours in English or English and another subject, must pass, near the close of his last year, a special general examination, either oral or written, conducted by a committee of the Department.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

ROMANCE LANGUAGES

Professor.....

Associate Professor.....J. L. Darbelnet

Assistant Professors.....Mme. Touren Furness, L. d'Hauteserve*, Mrs. H. L. Henry, P. L. Larivière

Lecturers.....Mme. W. B. Ross, Miss Ana Denton, Mlle. Norah M. Lenoir

Part-time Assistant.....Mlle. Madeleine Bodier

FRENCH

Every lecture, even in the First Year, is given in French.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honours courses) counts for 50 per cent.

A special section in the First Year is provided if necessary for the students who undertake the courses in French with very little knowledge of the spoken language, but it is not possible to acquire fluency without extra work. Students who are deficient in this respect, and especially those taking French as a continuation subject, are therefore strongly advised to follow the French Summer School course either before or after their First Year.

General Courses

1. General Survey of Literature in the XVIIIth and XIXth Centuries; French Composition. First Year.

Mon., Wed., Fri., at 9 (Special Section and Section A), at 11 (Section B), at 2 (Section C). Professors Furness and Larivière, Mme. Ross, Mlle. Bodier and Mlle. Lenoir.

Texts: Sammartino and Guastalla, A Survey of French Literature (Longmans); Coindreau & Lowe, An Alternative French Composition Book (Holt); Saint Exupéry, Vol de nuit (Harper); Skinner, Quinze conteurs (Harcourt, Brace & Co.); Deval, Tovaritch (Holt).

Additional readings for Ordinary and Advanced Sections: Saint Exupéry, Vol. de nuit; Loti, Pêcheur d'Islande. Special Section: substitute Chinard, Scènes de la vie française, for the Survey of French Literature.

Additional text for the Advanced Course: Jules Romains, Knock (The Century Co.).

*On war service.

2. General Survey of French Literature from the Middle Ages Through the XVIth and XVIIth Centuries; French Composition. Second Year.

Section A. Tu., Th., Sat., at 9. Section B. Tu., Th., Sat., at 11.
Professor Furness, Mme. Ross and Mlle. Lenoir.

Texts:—Sammartino & Guastalla, A Survey of French Literature (Longmans); Coindreau & Lowe, An Alternative French Composition Book (Holt); Molière, Le Bourgeois gentilhomme (Gage); Mérimée, Colomba (Heath); L. Hémon, Maria Chapdelaine (Macmillan).

Additional reading: Alain-Fournier, Le Grand Meaulnes.

3. French Literature of the XVIIth Century. Third Year.

Mon., Wed., Fri., at 11.....Professor Larivière.

Texts:—Peyre & Grant, Seventeenth Century French Prose and Poetry (Heath); Seronde & Peyre, Nine Classic French Plays (Heath).

Readings:—Substitute Corneille, Le Cid and Horace; Racine, Andromaque and Phèdre; Molière, L'École des Femmes and Tartuffe; Pascal, Pensées; Bossuet, Oraison Funèbre d'Henriette d'Angleterre; Mme. de Sévigné, Lettres choisies; La Fontaine, Fables choisies; Mme. de La Fayette, La Princesse de Clèves.

4. French Literature of the XVIIIth Century. Third Year.

Mon., Wed., Fri., at 10.....Professor Larivière.

Texts:—A. Schinz, Eighteenth Century French Readings (Holt); Marivaux, Le Jeu de l'amour et du hasard (Healh); Prévost, Manon Lescaut (Crofts); Voltaire, Candide (Holt); Beaumarchais, Le Barbier de Séville (Holt).

Readings: Lesage, Gil Blas (Extracts); Montesquieu, Les Lettres persanes; Voltaire, Les Lettres philosophiques; Diderot, Le Neveu de Rameau; Beaumarchais, Le Mariage de Figaro.

5. French Civilization—Geographical Outline—Political, Social, and Economic Aspects of French Life. Third and Fourth Years.

Mon., Wed., Fri., at 12.....Professor Darbelnet.

Text:—Morize and Rice, Introduction to France (Macmillan).

7. Literature and Social Ideas in the 19th Century. Third and Fourth Years.

Tu., Th., Sat., at 11.....
(Given in 1944-45).

8. FRENCH LITERATURE OF THE XIXTH AND XXTH CENTURIES. Fourth Year.

Mon., Wed., Fri., at 10.....Professors Furness and Darbelnet.

Texts:—Searles, Seven French Plays (Holt); Henning, Representative French Lyrics of the Nineteenth Century (Ginn); Balzac, Le Père Goriot (Nelson); P. Bourget, Le Disciple (Nelson).

Readings:—1. Hernani, Le Gendre de Monsieur Poirier, Les Corbeaux, Cyrano de Bergerac. 2. Lyrical poetry of the nineteenth century. 3. Le Père Goriot, Madame Bovary, Le Disciple.

HONOURS COURSES

11. INTRODUCTORY HONOURS COURSE. Second Year.

(a) The French comedy as illustrated by Molière, Beaumarchais and Musset.

(b) Free composition, written and oral on literary subjects. Translation into French and into English.

Tues., Thurs., Sat., at 10....Professors Furness and Darbelnet.

12. HISTORY OF THE FRENCH LANGUAGE. Third and Fourth Years.

Sat., at 10.....

(Given in 1944-1945.)

Reference Books:—Darmsteter, Cours de Grammaire historique, Parts I, II; F. Brunot, Histoire de la langue française; Holmes & Schutz. A History of the French Language (Farrar & Rinehart, Inc., N.Y.)

13. FRENCH STYLISTICS. Third and Fourth Years.

Tu., Th., at 11.....Professor Darbelnet.

Thought and Expression—Intellectual and affective elements of speech with special reference to snyonymy. Social and psychological background of words and phrases. Levels of speech.
(Given in 1944-1945.)

14. HISTORY OF THE FRENCH NOVEL. Third and Fourth Years.

Tu., Th., Sat., at 12.....Professor Darbelnet.
(Given in 1944-45).

15. HISTORY OF FRENCH LYRICAL POETRY. Third and Fourth Years.

Tu., Th., at 10.....Professor Larivière.
(Given in 1944-1945.)

16. Survey of Contemporary French Literature. Third and Fourth Years.

Tu., Th., Sat., at 10.....Professor Larivière.

(Given in 1944-45.)

17. Comparative Literature (English 17): The Literary Influence of the Continent Upon England Since the Renaissance.

Tu., Th., Sat., at 9.....

Honours Courses in French

Honours in French begin in Second Year. Only exceptionally will students be permitted to take Honours Courses in their third year without having previously passed 2 and 11.

All students taking Honours in French are required to take in their third or fourth years French 12, History of the French Language.

Prerequisite:—1.

Second Year:—2 and 11.

Third Year:—Three full courses (or the equivalent) including at least one full honours course.

Fourth Year:—Three full courses (or the equivalent) including at least one full honours course, and course 12 if not previously taken.

Combined Honours Course

Prerequisite:—1.

Second Year:—2 and 11.

Third Year:—Two full courses or their equivalent.

Fourth Year:—Two full courses including Course 12, if not previously taken.

M.A. Courses

See the Announcement of the Faculty of Graduate Studies and Research.

SPANISH

1. First Year.

Grammar, reading and dictation, oral exercises and composition.

Mon., Wed., Fri., at 2, 3, or 4.....Professor Henry and Miss Denton.

Texts:—Keniston, Learning Spanish (Holt); Crow, Spanish American Life (Holt).

2. Second Year.

Further cultural reading. Translation. Free composition. Conversation.

Tues., Thurs., Sat., at 11.....Professor Henry and Miss Denton.

Texts:—Spanish Composition (Norton); Spanish Short Stories (Appleton); Carlilla Espanola (Crofts).

3. Third Year.

Tu., Th., and Sat., at 9.....Professor Henry and Miss Denton.

Novelists of XIXth century. The conquest and colonization of Hispano-America. Composition. Translation. Conversation.

Intermediate Spanish Grammar and Readings (Appleton); Cools' Spanish Composition (Ginn); Pageant of South American History (Longmans); Cuentos Criollos (Heath).

4. Fourth Year

Tu., Th., and Sat. at 10.....Professor Henry and Miss Denton.

Advanced Composition. Contemporary Spanish drama. The Golden Century in Spanish literature. Hispano-American culture. Wars of Independence. Simon Bolivar, José de San Martin, etc.

Advanced Spanish Composition (Johnson Publishing Co.); Tres Comedias (Heath), Mariucha (Heath); En Flandes se Ha Puesto el Sol (Heath); La Vida es Sueno (American Book Co.).

A list of novels and plays for private reading will be given at the beginning of the session.

Comparative Literature. Hispanic Contacts with European Literature (Third and Fourth Years). (English 24).

This course will be open to students having a reading knowledge of French or Spanish or both, and will deal with relations between the literature of Spain and that of other European countries, particularly England and France. Though readings in Spanish texts will be assigned much of the material will also be available in adequate translations.

Subjects for special study will be: (a) the European influence of *Don Quixote* and of the Picaresque Novel; (b) currents in Spanish preromanticism; (c) the historical novel in Spain and the influence of Scott; (d) Spanish developments of Byronism; (e) the Spanish *romances* in nineteenth-century literature.

Mon., Wed., Fri., at 3 (Not given in 1944-45).

DEPARTMENT OF GENETICS

Professor.....C. Leonard Huskins
Lecturer.....Arthur G. Steinberg*
Lecturer.....H. G. F. Sander

Elementary lectures in Genetics are included in Botany 1A and Zoology 1B.

1. Genetics and Evolution.

Principles of Genetics; Human Heredity; Evolution.
Mon., Wed., Fri. at 9. 1 laboratory hour to be arranged.
Prerequisite:—Elementary Botany or Zoology.
In the second term advance students may be assigned to special sections.....Professor Huskins, Dr. Sander.
Students who have not obtained at least second class standing in Genetics 1 will be admitted to Genetics 2, 4 or 5 only under special circumstances.

2. Cytology.

The protoplasmic organization of the animal and plant cell.
2nd term., Mon., Wed., Fri., at 12.
Prerequisite:—Genetics 1, but may be taken concurrently at the discretion of the instructors.....Professor Huskins and Dr. Sander.

3. Cytological Technique.

2nd Term:—6 hours to be arranged.
Prerequisite:—Zoology 5, unless special exemption is obtained.
Genetics 2 must be taken concurrently.....Dr. Sander.
Not given in 1944-45. See Zoology 5.

4. Biometry.

Applications of statistics to problems in Biology.
Wed., Fri., at 10.

5. Cytogenetics and the Mechanics of Evolution.

Studies on the physical basis of heredity and on the role of genetic and other factors in evolution.
1st term: Mon., Wed., Fri., at 11.
Prerequisite:—Genetics 1.....Professor Huskins.

6. Developmental Genetics.

Studies on the role of the genes in development.
2nd term: Mon., Wed., Fri., at 11.
Prerequisites:—Genetics 1 and Zoology 4 (Embryology). The latter may be taken concurrently.

*On Leave of absence.

Honours Course

Students who contemplate graduate studies and research in Genetics or Cytology are advised to take the Honours Course in Functional Biology or in the biological department in which their chief interest lies.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

GEOLOGICAL SCIENCES

Professors..... {John J. O'Neill. R. P. D. Graham. T. H. Clark.

Associate Professors..... {J. E. Gill. F. F. Osborne.

Demonstrator.....

1. General Geology (Eng. 141).

In addition to the lectures there are excursions on Saturday mornings for five or six weeks after the term opens; students attending these are excused from any classes which conflict with the excursions. Two hours laboratory; sections will be announced at first meeting.

Mon. and Fri. at 9.....Professor Clark.

Text-books: — Longwell, Knopf, Flint, Schuchert, and Dunbar. "Outlines of Geology" 1941 (Wiley).

2. Physiography.

First term: Tu., and Th. at 10, and one laboratory period Th., 2 to 4.
Prerequisite:—1.....Professor Gill.

3. Stratigraphy.

First term: Mon., Fri., at 11; one hour laboratory, and two full days of field work during October. One half course.
Prerequisite:—1.....Professor Clark.

4. Geology and Natural Resources of Canada (Eng. 149).

Second term: Tu. and Th. at 10; Lab. Th. 2-5.
Prerequisite:—1.....Professor Gill.

5. Mineralogy (Eng. 142).

Tu. and Th., at 9.....Professor Graham.

6. Determinative Mineralogy (Eng. 143).

Two laboratory periods during the second term; Wed., Fri., 2 to 5.
Professor Graham.

7. Structural and Field Geology (Eng. 147).

Lectures, laboratory, and field mapping.
First term: Tu. and Th., at 9, and Fri. 2-5.....Professor Gill.
Prerequisite:—1, 5, 6.

8. Ore Deposits (Eng. 148).

Tu., and Th., at 11: Lab., Tu. 2-5.
Prerequisite:—7 and 10.....Professor O'Neill.
Text-book:—Economic Geology—Emmons (McGraw-Hill, 1940, Edn.)

9. Optical Mineralogy and Crystallography.

One lecture Mon., at 10 and three hours laboratory period; first term.....Professor Graham.
Prerequisite:—1, 5, 6.

10. Petrology (Eng. 146).

Second term: Tu. and Th., at 9; Fri., 2-5.....Professor Osborne.
Prerequisite:—1, 5, 6.

12. Palæontology.

Second term: Mon., Fri., at 11; laboratory, Wed., 2-5, and one full day's field work in April. (One half course).
Prerequisite:—1 or Zoology 1.....Professor Clark.

13. Science in Economic Life (Pt. 1):—For B.A. and B. Com. students.

Mon., Wed., Fri., at 11.....Professor Osborne.

Honours Courses

Second Year:—Geology 1, 5, 6; 1 course in Chemistry and 2 other courses to be arranged.

Third Year:—Geology 7, 10, and either 2 and 4, or 3 and 12; Chemistry 4; Physics 12; other course or courses to be arranged.

Fourth Year:—Geology 8 and 9; and either 2 and 4 or 3 and 12; and additional courses as advised.

Note:—It is desirable that courses in surveying, mapping, and draughting be included in the Honours course in most cases.

GERMAN

Associate Professor.....W. L. Graff
Lecturer..... Miss B. Meyer

Courses 1 to 7 inclusive are carefully graded and closely interrelated. Hence, their choice by any student must take account of his knowledge of German and is subject to approval by the Department.

1. German Language. (Beginners' B.A. Course).

Tu., Th., Sat., at 9.....Miss Meyer.
Texts: Evans M. B. and Röseler R. O. Shorter College German. (Crofts).; P. Hagboldt, Anekdoten und Erzählngen (Heath & Co.); D. Koischwitz, Deutsche Fibel (Crofts).

Students intending to proceed to Course 5 from the above must have obtained a First Class.

Those intending to proceed to Course 7 must have obtained a First Class and are required to study during the summer the following texts:—Viebig, C., Der Gefangene (Crofts); Kästner, Emil und die Detektive (Holt & Co.); Schrakamp, Ernstes and Heiteres (A.B. Co.).

2. GERMAN LANGUAGE.

Tu., Th., Sat., at 10.....Professor Graff.

Texts:—Evans M. B. and Röseler R. O., College German, 4th edition, 1939, Crofts; Schiller, Das Lied von der Glocke (Heath); W. Diamond and C. B. Schomaker, Lust und Leid (Holt Co.); F. Bruns, A Book of German Lyrics (Heath Co.).

Private Reading:—P. Hagboldt, Eulenspiegel und Munchhausen.

3. GERMAN LANGUAGE. (Beginners' B.Sc. Course).

Tu., Th., Sat., at 10 or 11.....Miss Meyer.

Texts:—Vos B. J. and Leser H. G., Concise German Grammar (Holt); P. Hagboldt, Anekdoten und Erzählungen (Heath & Co.); Fiedler and Sandbach. A First German Course for Science Students (Oxf. Univ. Press).

Students intending to proceed from Course 3 to an Arts Course must have obtained a first or high second class and are required to read during the summer P. Olman, Der Onkel aus Amerika (Prentice-Hall).

4. GERMAN SCIENCE READING COURSE. Second Year. Half Course.

Mon., at 5.....Professor Graff.

For students who have matriculated in this language or have taken it in the First Year.

Texts:—Curts, Readings in Scientific and Technical German (Holt & Co.).

5. GERMAN LANGUAGE.

Mon., Wed., Fri., at 11.....Miss Meyer.

Texts:—Osthaus & Biermann: German Prose Composition (American Book Co.); P. Heyse, L'Arrabbiata (Heath, N.Y.); Schiller, Maria Stuart (Holt); Porterfield, Modern German Stories (Heath).

PRIVATE READINGS:—

Riehl, Der Fluch der Schönheit (Heath); Schnitzler, Der Blinde Geronimo und sein Bruder (Heath & Co.).

7. GERMAN LANGUAGE AND LITERATURE.

Mon., Wed., Fri., at 12.....Professor Graff.

Texts:—Klarmann and Gorr, German Readings and Composition (Harper and Brothers); Goethe, Egmont (Holt); Lessing, Nathan der Weise (A.B. Co.).

Private Readings:—

Th. Mann, Tonio Kröger (Crofts & Co.); Grillparzer, Der arme Spielmann (Heath & Co.).

No student may proceed from German 1 to German 7 unless he has completed the summer work as given under course 1.

German Conversation:—Students of the Second Year intending to continue German in the Third Year must attend a class in Oral German (one hour a week) until in the Professor's opinion they have reached a satisfactory standard.

N.B.—In order to be admitted to the following courses a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. German Literature in the Eighteenth Century.

Mon., Wed., Fri., at 9.....Miss Meyer.

Texts:—Lessing, Emilia Galotti (Ginn); Goethe, Iphigenie; Schiller, Wallenstein; Stroebe & Whitney; Geschichte der Deutschen Literatur, Whitney & Stroebe; Exercises in German Syntax (Holt) and Composition for Advanced Students (Holt).

Private Readings:—Lessing, Minna von Barnhelm; Goethe, Urfaust; Schiller, Kabale und Liebe.

9. German Literature in the Nineteenth Century.

Mon., Wed., Fri., at 9.....Professor Graff.

The important literary movements and writers of the 19th century are studied and discussed. Collateral readings.

10. From Naturalism to Expressionism. Professor Graff.

Three hours to be arranged. Prerequisites: German 8 and 9.

11. Middle High German Language and Literature.

Two hours, to be arranged.....Professor Graff. (Given in 1944-45).

Texts:—A. Senn, An Introduction to Middle High German (Norton & Co., N.Y.).

12. Aus der Geschichte der Deutcshen Lyrik von Goethe bis in die Neuzeit.

One hour.....Professor Graff.

Text:—F. Burns, Die Lese der deutschen Lyrik (F. S. Crofts & Co.).

13. Geschichte des deutschen Trauerspiels.

Two hours, to be arranged. (Given in 1944-45).....Professor Graff.

Honours Courses

The selection of Honours Courses in German must be approved by the Department.

Students honouring in the Second Year must choose two full courses from the following: German 5, 7, 8.

In the Third and Fourth Years one full course must consist of either German 11 and 12 or German 12 and 13. The other full course must be chosen from German 8, 9 or 10.

Students may begin Honours in German in the Third Year, if in the opinion of the Department they are qualified to do so.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

HISTORY

Associate Professor.....E. R. Adair
Assistant Professors.....C. C. Bayley, J. I. Cooper
Sessional Lecturer.....W. S. Reid

Courses for General Students

1A. European Civilization and its Expansion Overseas Since the End of the Roman Empire. First Year.

Tu., Th., Sat., at 9.....Professors Bayley and Cooper.

or

1B. Ancient History. First Year.

Tu., Th., Sat., at 11*.....Professor Carruthers and.....

Students in History desiring to take course 1B should read the notes below on Continuation and Honours Courses in History.

2. General History of North and South America. Second Year.

Mon., Wed., Fri., at 9.....Professor Adair.

3. History of the British Empire. Second Year.

Tu., Th., Sat., at 10.....Professor Cooper.

With the consent of the Department, this course may be taken by Third Year students.

*See also under Department of Classics.

4. History of Canada. Third Year.
Tu., Th., Sat., at 9.....Professor Cooper.
With the consent of the Department, this course may be taken by Fourth Year students.

5. General English History with special emphasis on the Modern Period. Fourth Year.
Mon., Wed., Fri., at 11.....Dr. Reid.
With the consent of the Department, this course may be taken by Third Year students.

6. History of Europe, 1789-1939. Fourth Year.
Mon., Wed., Fri., at 12.....Dr. Reid.
With the consent of the Department, this course may be taken by Third Year students.

Courses Specially for Honours Students

Prerequisite:—History 1.

7. Mediæval Life and Institutions. Second Year.
Tu., Th., Sat., at 10.....Professor Bayley.

8. History of Modern Europe to 1789. Third Year.
Mon., Wed., Fri., at 12.....Professor Adair.

9. The Government of England, the United States and Canada: A Comparative Survey. Fourth Year.
Tu., Th., Sat., at 11.....Professor Bayley.

10. History of Economic and Social Conditions, with Special Reference to England. Fourth Year.
Mon., Wed., Fri., at 10 *or* 11, as arranged.....Professor Adair.

Additional Courses

11. Canada and the United States: Their Diplomatic and Economic Relations from Colonial Times to the Present.

11A. From Colonial Times to 1861.
Tu., Th., Sat., at 11. First Term.....Professor Cooper.

11B. From 1861 to the Present.
Tu., Th., Sat., at 11. Second term.....Professor Cooper.

12. Intellectual History of Modern Europe.
Mon., Wed., Fri., at 10.....Dr. Reid.

Courses 11 and 12 are open to students in Arts, Science and Commerce of the Third and Fourth Years. 11A and 11B may each be taken as a half course, but unless 11A has already been taken, a student who desires to take 11B must first obtain the consent of the Department to do so. Courses 11 and 12 may not be taken as continuation courses.

SPECIAL SUBJECTS:—

England in the Age of Wyclif.

The Reign of Charles I.

William Pitt and the Conquest of Canada.

England under the Victorian Compromise (1837-1867).

Social Reconstruction in Pre-War England (1895-1914).

A Selected Topic in Canadian History 1867-1896.

A Period or Aspect of Ancient History.*

NOTE.—A choice of one of these special subjects for continuous study by Honours students during their Third and Fourth Years is made in consultation with the Department. Students will be expected to acquire a general knowledge of the subject selected and to make a more intensive study from original sources of one of its aspects.

General students taking History as a continuation subject may, if they so desire, take course 1B (Ancient History) in their first year. If they do so, they must take History 1A in their second year, and either History 2 or History 3 in their Third Year.

Unless the special consent of the department is obtained, History 1A must be taken as a prerequisite to History 2 or History 3 for all students taking History as a continuation or Honours subject.

Before being admitted to Honours standing in History, students are expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a First Year college course following matriculation Latin, or, at the discretion of the Department, by high ranking in Latin in a matriculation examination.

Students taking Honours in History will take the following courses.

First Year: History 1A, and four courses in other subjects.

Second Year: History 2 and 7.

Three approved courses in other subjects, at least one of which must be a foreign language.

Third Year: History 4 and 8.

An approved course in Philosophy, Economics, Sociology, Latin, French, *or* German. One of the special subjects in History.

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*For courses in Ancient History, see under the Department of Classics.

Fourth Year: History 6, 9, and 10.

Continuation of the special subject begun in the Third Year.

Students taking Honours in History and another subject will take the following courses in History.

Second Year: History 2 and 7.

Third Year: History 4 and 8.

Fourth Year: History 9, and either 6 or 10.

NOTE.—In addition to the examination on the subjects taken in the last year, Fourth Year Honours students have a general examination paper on the history studied by them in their four years.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

LAW

Professor.....P. E. CORBETT

THIRD AND FOURTH YEARS

JURISPRUDENCE.—An enquiry into the nature and function of Law, its relation to society and the state, and a review of the principal institutions of a state.

Three hours a week (to be arranged).

INTERNATIONAL LAW.—An enquiry into the origin and nature of International Law, its scope and authority, and its history and contemporary development.

Three hours a week (to be arranged).

These courses are open to third and fourth year students in the Faculty of Arts and Science.

MATHEMATICS

Professors.....C. T. SULLIVAN, N. B. MACLEAN, A. H. S. GILLSON, W. L. G. WILLIAMS

Associate Professors.....H. TATE, G. PALL

Assistant Professor.....W. B. ROSS

Sessional Lecturer.....E. ROSENTHALL

1. MATHEMATICS. (For First Year students).

Geometry and Trigonometry. Mon., Wed., Fri., at 9 or 11, first term
Algebra. Mon., Wed., Fri., at 9 or 11, second term.

Five ordinary sections: Professors MacLean, Tate, Pall, Dr. Ross, Mr. Rosenthall.

One advanced section, Mon., Wed., Fri., at 9...Professor Williams.

One section for Pre-Engineers who have had Intermediate mathematics.....Mr. Rosenthall.

One section for Pre-Engineers who have not had Intermediate mathematics.....Professor MacLean.

Text-books:—Hall and Knight, Elementary Trigonometry, revised Canadian edition; Carslaw, Plane Trigonometry, Hall and Stevens, School Geometry, Parts I-VI; H. Tate, Intermediate Algebra.

First or Second class standing in course 1 is necessary for course 3 or 4.

A knowledge of courses 3 and 4 is a prerequisite for courses 6 and 7.

Ordinary students taking Mathematics as a continuation subject are advised to take the following courses: Mathematics 2 or 15 in the second year, Mathematics 16 or 3 in the third year, and Mathematics 17 or 4 or 8 in the fourth year.

2. ELEMENTARY ANALYSIS. (For Second Year students).

Mon., Wed., Fri., at 10.....Mr. Rosenthall.

3. CALCULUS. (For Second Year and other qualified students).

Mon., Wed., Fri., at 10.....Professor Sullivan.

Text-book:—Lamb, Infinitesimal Calculus.

4. ALGEBRA AND ANALYTICAL GEOMETRY. (For Second Year and other qualified students).

Tu., Th., Sat., at 12.....Dr. Ross.

Text-book:—C. Smith, Conic Sections.

5. SPHERICAL TRIGONOMETRY AND ASTRONOMY. (For Second Year and other qualified students.)

Spherical Trigonometry: One hour, first term....Professor Sullivan.

Astronomy: Two hours, second term.....Dr. Ross.

Text-books:—Murray, Spherical Trigonometry; Barlow and Bryan, Astronomy (London University Tutorial Press); Moulton's Astronomy.

This course can be combined with Physics 4 to form a three-hour course for the year.

6. ANALYTICAL GEOMETRY OF THREE DIMENSIONS. (For Third Year and other qualified students).

Three hours.....Professor Sullivan.

Text-books:—C. Smith's Solid Geometry: R. T. J. Bell, Geometry of Three Dimensions.

7. Infinitesimal Calculus and Differential Equations.
(For Third Year and other qualified students).

Three hours.....Professor Pall.

Text-books:—Lamb, Infinitesimal Calculus; Osgood, Advanced Calculus; Forsyth, Differential Equations (Macmillan); Piaggio, Differential Equations (Bell).

8. Advanced Algebra and Finite Differences.
(For Third Year and other qualified students).

Three hours (Tu., Th., Sat., at 12).....Professor Tate.

Text-books:—Barnard and Child, Higher Algebra.

9. Modern Higher Algebra. (For Fourth Year and other qualified students).

Three hours.....Professor Pall.

Text-book:—C. C. MacDuffee; Introduction to Abstract Algebra (Wiley).

10. Introduction to the Theory of Functions of a Real Variable. (For Fourth Year and other qualified students).

Three hours.....Mr. Rosenthall.

Text-books:—Hardy, Course in Pure Mathematics (Camb. Univ. Press); Carslaw, Fournier's Series and Integrals.

11. Introduction to the Theory of Functions of a Complex Variable.
(For Fourth Year and other qualified students).

Three hours.....Professor Sullivan.

Text-books:—MacRobert, Functions of a Complex Variable; Whittaker and Watson, Modern Analysis; Appell and Lacour, Fonctions Elliptiques (Gauthier-Villars).

15. Elementary Co-ordinate Geometry.

Mon., Wed., Fri., at 12.....Professor Tate.

16. Elementary Calculus.

Mon., Wed., Fri., at 10.....Professor Tate.

17. Theory of Interest and Life Contingencies.

Tu., Th., Sat., at 11.....Professor Tate.

Honours Courses in Mathematics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, 5, Physics 3, 4 and one other approved course.

Third Year:—Courses 6, 7, 8, and a fourth course (in any subject) approved by the Department.

Fourth Year:—Courses 9 or 17, 10, 11, and a fourth course (in any subject) approved by the Department.

Honours Courses in Mathematics and Physics

Prerequisites:—High standing in Mathematics 1; Physics 1 or 2.

Second Year:—Mathematics 3, 4, 5; Physics 3, 4. (Chemistry or English or German recommended as other subject to be chosen).

Third Year:—Mathematics 6, 7; Physics 5, 6.

Fourth Year:—Mathematics 10, 11; Physics 7, 8, 9, 10.

Honours Course in Economics and Mathematics

Second Year:—Two approved full courses in Economics and Mathematics 3 (Calculus), and Mathematics 4 (Co-ordinate Geometry), and one elective course in any approved subject.

Third Year:—Two approved full courses in Economics and Mathematics 7 (Calculus and Differential Equations), and Mathematics 8 (Advanced Algebra and Finite Differences).

Fourth Year:—Two approved full courses in Economics and one course from (a) Mathematics 17 (Theory of Interest and Life Contingencies), or (b) Mathematics 9 (Modern Higher Algebra), or (c) Mathematics 6 (Analytical Geometry of Three Dimensions), or (d) Mathematics 10 (Introduction to Theory of Functions of a Real Variable), and any other approved elective course which may even be a second mathematical course not already taken from (a), (b), (c), or (d).

Graduate Courses in Mathematics

See the Announcement of the Faculty of Graduate Studies and Research.

MUSIC

Dean of the Faculty of Music:—Douglas Clarke

The courses in Music are open to those who have the qualifications for the regular courses of Music given in the Faculty of Music. The following courses may be taken as electives in the Faculty of Arts and Science. The first course of Music is for those who have offered Music as a Matriculation subject.

1. (a) *Harmony.*

The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Wed. at 4.15 or Sat. at 10.

Text-books:—MacPherson, "Rudiments of Music"; Kitson, "Elementary Harmony"—Part I.

(*b*) *Form and Analysis.*

Phrase. Sentence. Sequence. Cadence Accent. Rhythm. Time Melody. Modulation. Early Dance Forms. Suites—with special consideration of the Minuet and Trio.

Tues. at 4.

Text-books:—MacPherson, "Form in Music"; MacPherson, "Studies in Phrasing and Form"; R. O. Morris, "Structure of Music".

(*c*) *History* (Outline.)

Mon. at 4.

Text-book:—Stanford & Forsyth, "A History of Music".

(*d*) *Aural Training.*

Development of a mental appreciation of scale degrees; recognition of intervals and simple rhythms; quality of tone.

Thurs. at 4.

Text Book:—Aural Training, B. C. Allchin (Novello).

2. (a) *Harmony.*

The work covered is that required for the Senior Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music).

Tues. at 5 or Sat. at 9.

Text-books:—MacPherson, "Rudiments of Music", "Practical Harmony"; Kitson, "Elementary Harmony"—Part II.

(*b*) *Form and Analysis.*

Sonata form, Sonata Rondo Form, standard type of classical sonatas, quartets, symphonies. The overture.

Thurs. at 5.

Text-books:—In addition to books on Form recommended for First Year: Essays in Musical Analysis—Tovey.

(*c*) *History.* (1600-1900).

Wed. at 5.

Text-books:—Colles, Growth of Music; Fellowes, The English Madrigal; Scholes, Listeners' History of Music—Part 3.

General Reading:—Parry-Williams, A Music Course; Hadow, Sonata Form; Finney, A History of Music. Parry, Evolution of the Art of Music.

(d) *Aural Training.*

Detecting major and minor chords, diminished and augmented triads. Dominant 7ths. Dictation, with modulation to neighbouring keys. Sight reading in two and three parts. Chromatic intervals.

Mon. at 5.

Text-book:—Aural Training. B. C. Allchin.

3. (*a*) *Harmony and Counterpoint.*

Harmony:—Vocal in three and four parts, up to chords of major and minor ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured and unfigured bass, the completing of a harmonic sentence from a given pattern).

Text-books:—Macpherson, Melody & Harmony; Buck, Unfigured Harmony.

Counterpoint: In two parts—up to, and including 5th Species.

Text-books:—Gladstone, Strict Counterpoint; Kitson, Counterpoint for beginners.

Thurs. 4-5.30.

(*b*) *Form and Analysis.*

Origin, development of the Fugue. Analysis of some of the "48" and better known organ fugues. Comparison of fugues by various composers.

Wed. at 3.

Text-books:—Gray, Bach's Forty-eight; Macpherson, Bach's Forty-eight (A Commentary); Prout, Fugue.

(*c*) *History.* (Earliest times up to 1600.)

Mon. at 3.

Text-books:—Madeley Richardson, The Mediaeval Modes; Parry, The Art of Music; Dyson, The Progress of Music; Bacharach, The Musical Companion; Parry, Summary of Musical History; Walker, History of Music in England.

(*d*) *Chamber and Orchestral Music, Opera and Score Reading.*

Chamber Music and its development. Music for viols. The string quartet. Opera. History of the development of the orchestra. Haydn's orchestra. Beethoven's orchestra. Description of orchestral instruments. The symphony. (The gramophone will be used.)

Tues. at 3.

Text-books:—Dunhill, Chamber Music; Dunhill, Mozart's String Quartets; Marliave, Beethoven Quartets; Tovey, Essays in Analysis (Vol. I); Dent, Opera. Terry, The Music of Bach. Dickenson, Mozart's last three symphonies (Pilgrim).

4. (*a*) *Harmony.*

Instrumental, in three and four parts. Figuration.

Mon. at 2.

Text-book:—Morris, Foundations of Practical Harmony and Counterpoint.

(*b*) *Counterpoint.*

Strict (covering all species)—up to three parts. Answers to fugue subjects. Fugal exposition in 2 parts.

Mon. at 3.

Text-book:—Madeley Richardson, Fundamental Counterpoint; Higgs, Fugue; Prout, Fugue; Madeley Richardson, Helps to Fugue Writing.

(*c*) *History.* (*Modern*).

Tues. at 3.

Text-books:—Nef, An outline of the History of Music; Ewen, from Bach to Stravinsky; Bauer, Twentieth Century Music; McNaught, Modern Musicians.

(*d*) *Form and Analysis.*

Analytical study of great works.

Thurs. at 3.

Text-books:—Various publications in the Musical Pilgrim Series, (Oxford Univ. Press); Tovey, Essays in Musical Analysis; Vaughan Williams, National Music; Tovey, A Companion to Beethoven's Sonatas; Markham Lee, Brahms Orchestral Works; Harrison, Brahms and his Four Symphonies; Dyson, the New Music.

(*e*) *Orchestral and Chamber Music Repertoire* (with gramophone).

Critical listening. Extended Chamber Music with solo instruments and advanced study of orchestral repertoire.

Wed. at 3.

Text-books:—Forsyth, Orchestration; Tovey, Essays in Music Analysis —Vols. 1 to 5; Colles' The Chamber Music of Brahms (Pilgrim).

PHILOSOPHY

Professors.....{.....
R. D. MACLENNAN
Assistant Professor.....J. S. FULTON*
Lecturer.....C. CURRIE

GENERAL COURSES

1. INTRODUCTION TO PHILOSOPHY. Second Year.

An introduction to philosophical thought on the world and man. There is included a short study of logic, deductive and inductive, and discussion of the relations of science, philosophy and religion.

Reading:—*Dialogues of Plato* (Modern Library); *Selections* from *Descartes, Berkley* and *Hume* (Scribner's Modern Students' Library); *The Traditional Formal Logic* (Sinclair, Methuen).

Once a week the class meets in tutorial groups.

Tu., Th., Sat., at 10..... Professor Maclennan and Mr. Currie.

2. ETHICS. Second Year.

The main types of ethical theory.

Reading:—Plato's *Republic* (Golden Treasury); Butler's *Fifteen Sermons* (Matthews, Bohn Library, Bell); Aristotle, *Politics*, Hobbes, *Leviathan* and Mill, J. S., *Utilitarianism* (Everyman Library); Kant, *Fundamental Principles of the Metaphysics of Morals* (T. K. Abbot, Longmans).

Mon., Wed., Fri., at 11..... Professor Maclennan.

3A. HISTORY OF GREEK PHILOSOPHY. Third and Fourth Years.

First term. Reading: Dialogues of Plato (Modern Library); The Basic Works of Aristotle (Random House).

Prerequisite—Philosophy 1, except for students in Honours Courses in Greek.

Mon., Wed., Fri., at 12.....

3B. READINGS IN PLATO AND ARISTOTLE.

Second term. Aristotle's *Ethics;* Plato, *Dialogues* (Random House).

Prerequisite—Philosophy 3A.

Mon., Wed., Fri., at 12.....

4. HISTORY OF PHILOSOPHY FROM THE RENAISSANCE TO THE PRESENT DAY.

Selections from *Descartes, Hume, Hegel* (Scribner's Modern Students' Library); Leibniz's Philosophical Writings (Everyman); Kant, Prolegomena to any future Metaphysic (Open Court); Bergson, Creative Evolution (Holt).

Tu., Th., at 12, and a conference hour to be arranged.....Mr. Currie.

Prerequisite—Philosophy 1.

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*On war service.

ADVANCED COURSES

5. Political and Social Philosophy.

Seminar on human relations, law, the State, international relations and ethics. Rousseau (*Social Contract.* Everyman, Dent; and other writings); Plato (*Republic and Laws*); Aristotle (*Politics* and *Ethics*, Everyman); various authors of the 17th and 18th centuries, notably Hobbes, Kant (*Metaphysic of Morals*, Longmans); Hegel; T. H. Green (*Principles of Political Obligation*); Karl Marx and contemporary authors. Various topical discussions will be held on Law, Freedom, Sovereignty, Democracy, Authoritatian Politics, Literature and Ethics, Religion and the State.

The students will make some special investigations of their own in this course.

Prerequisite: Philosophy 2. Students of advanced standing in economics and political science, or other cognate subjects, are permitted to take this course without fulfilling the above prerequisite, but only with the express consent of the lecturer.

Not given in 1944-45.

6. Problems of Logic and Metaphysics.

An examination of fundamental problems of logic, theory of knowledge and metaphysics will be made on the basis of selected readings in the works of Mill, Bosanquet, Stebbing, Dewey, Russell, C. I. Lewis, and other contemporary authors.

Prerequisites:—Philosophy 1 and 4.

Mon., Wed., Fri., at 10.....Professor Maclennan and Mr. Currie.

7. Readings in the Classics of Modern Philosophy.

Modern Classics. Reading:—1st term: Spinoza, Ethics; 2nd term, Kant, Critique of Pure Reason.

Hours to be arranged.....Mr. Currie.

Prerequisites: May be taken by students in good standing in Philosophy with the consent of the lecturer.

8. Seminar on Contemporary Philosophy.

Subject for 1944-45: The Philosophy of Whitehead.

Time to be arranged.....The Staff.

HONOURS COURSES

The Plan of Honours in Philosophy.

Students taking an honours course are to study the subject of philosophy as a whole. They are expected to master a certain body of essential reading some of which may not be dealt with in any lecture courses and conferences. At the conclusion of the Fourth Year there is a comprehensive examination on the total work done in the field of philosophy. The examination will consist of three papers which take the place of examinations in the courses of the Fourth Year.

Students pursuing a combined Honours Course are examined on such portion of the general reading and courses as is pertinent to the combined subject-matter of their course of study. They take two of the comprehensive examinations instead of examinations in the courses of their Fourth Year.

The General Reading is as follows:

Reading for the Field of Philosophy

Plato: *Republic, Thaetetus, Timaeus.*
Aristotle: *Nichomachean Ethics, Politics, De Anima.*
Descartes: *Meditations,* etc.
Spinoza: *Ethics.*
Leibniz: *Philosophical Writings* (Everyman).
Locke: *Essay on Human Understanding.*
Newton: *Principia, Bk. 3, System of the World, Rules of Reasoning in Philosophy and Conclusion.*
Berkeley: *Principles and Dialogues.*
Hume: *Dialogues.*
Kant: *Critique of Pure Reason. Critique of Practical Reason.*
Hegel: *Introduction to Phenomenology of Mind,* and to *Philosophy of History.*
Bergson: *Creative Evolution.*
Whitehead: *Science and the Modern World, Adventures Of Ideas.*

The course requirements are as follows:

Second Year:—Philosophy 1.

Third Year:—Three general courses, 2, 3 and 4.

Fourth Year:—Three advanced courses and one full course in another subject approved by the department.

For any combined honours course, a total of five full courses including Philosophy 1.

Philosophy as a Continuation Subject

Students interested in studying philosophy in conjunction with other subjects are advised to take their courses in Philosophy in the sequences indicated below in connection with the other studies:

1. Philosophy with one or more studies in the social sciences, e.g., economics, history, politics, psychology and sociology.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 5.

2. Philosophy with one or more studies in the natural sciences, e.g., biochemistry, botany, chemistry, genetics, physics, zoology.
   Philosophy 1, Philosophy 4 or 6.

3. Philosophy with studies in English or Foreign Literature.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 4.

PHYSICS

Professors.....{A. Norman Shaw, D. A. Keys, J. S. Foster, H. E. Reilley}

Assistant Professors.....{H. G. I. Watson, F. R. Terroux}

Lecturer.....A. I. McPherson

Instructor in Laboratory Technique.....H. T. Pye

1. General Course.

Mon., Wed., and Fri. at 2, or at 3 (*by arrangement*); laboratory.

Tu. 2-4, or Wed. 4-6, or Th. 2-4.

Professor Keys and Demonstrators.

Text-books:—College Physics, Mendenhall, Eve, and Keys (Heath and Co.); An Elementary College Course in Experimental Physics (Renouf Publishing Co.).

1B. Outline of Physical Science*. (Open to B.A. and B.Com. students).

An introductory course in physics and astronomy, suitable for students taking the diploma in education, and also those interested in the influence of physical science upon other branches of learning.

Mon., Wed., and Fri., at 12; (laboratory, 10 periods only, Wed. 4-6, or by arrangement).

Reference books:—College Physics, Mendenhall, Eve and Keys (Heath); Astronomy and Astrophysics, Vols. I and II, Russell, Dugan and Stewart (Ginn).

2P. General Course (Advanced). A continuation course in general physics, primarily for biological and pre-medical students. (Physics 1, or equivalent, prerequisite.)

Tu., Th., at 3, Wed. at 11, laboratory Wed. 2-4 or by arrangement.

Professor Reilley and Demonstrators.

Text-books:—Duff's Text-book on Physics (Blakiston): Laboratory Manuscripts (mimeographed). *Reference books:*—Daniel's Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

*Not offered in 1944-45.

2. HEAT, MAGNETISM AND ELECTRICITY. (Engineering 311, Lab. 312.)

Tu., Th., Sat., at 11.....Professors Shaw and Reilley.

Laboratory, Wed., 11-1, or Wed., 2-4.

Professors Terroux, H. G. I. Watson and Demonstrators.

(If desired, the course on heat given in the first term or the course on magnetism and electricity given in the second term may each be taken as a half course.)

Text-books:—Duncan and Starling's Heat, Light and Sound (Macmillan); Heat, Sound and Light Laboratory Manual (Renouf Publishing Co.); Brown, Electricity and Magnetism (Holt); Electricity and Magnetism Laboratory Manual (mimeographed).

3A. ELECTRICITY, LIGHT AND SOUND. (Engineering 315, Lab. 316.)

Mon., Fri., at 11 (also voluntary tutorial).

Professors Reilley and H. G. I. Watson.

Laboratory, Mon. or Fri., 2-5.

Professors H G. I. Watson, Terroux and Demonstrators.

(If desired, the course on electricity given in the first term or the course on light and sound given in the second term may each be taken as a half course.)*

Text-books:—Brown, Electricity and Magnetism (Holt); Electricity and Magnetism Laboratory Manual (mimeographed); Duncan and Starling's Heat, Light and Sound (Macmillan); Heat, Sound and Light Laboratory Manual (Renouf Publishing Co.).

Reference book:—Starling's Electricity and Magnetism (Longmans).

3B. STATIC AND HYDROSTATICS.

Wed. at 9.....Professor Reilley.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

4. DYNAMICS.

Two hours, first term; one hour, second term. (A half course combined with Mathematics 5 to form a three-hour unit.)

Tu., Th., at 9.....Professor Terroux.

Text-book:—Loney's Statics and Dynamics (C.U.P.).

5A. PROPERTIES OF MATTER.

Tu. at 10; laboratory Fri. 2-5.....Professor Terroux.

Text-book:—Newman and Searle, "General Properties of Matter" (E. Benn Co.).

Reference book:—Champion and Davy, Properties of Matter (Blackie).

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*The course on electricity and magnetism given as the second half of course 2 is prerequisite to the course on electricity given as the first half of 3A.

5B. Statics, Dynamics of a Particle and Rigid Dynamics.
Wed. at 9, Fri. at 9, Tutorial problem hour, Mon. at 12.
Text-books:—Lamb's Statics and Lamb's Dynamics (C.U.P.).

6A. Electrical Measurements. (Graduate A.).
Tu., at 2, Wed., at 2, first term only; laboratory, Tu., 3-5, Wed., 3-5, both terms.
Professor H. G. I. Watson.

Reference books:—Law's Electrical Measurements (McGraw-Hill), Pidduck's Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge Methods (Pitman, London); Reich's Applications of Electron Tubes (McGraw-Hill).

6B. Light. (Graduate B.) (Replaced by 8B in alternate sessions.*)
Sat. at 10; Tutorial problem hour, Tu. at 11; laboratory Th., 2-5
Professor Keys.

Text-book:—Houston's Light (Longmans).
References:—Robertson's Physical Optics (Van Nostrand); Wood's Physical Optics (Macmillan); Drude's Optics (Longmans).

6C. Electricity. (Engineering 318.)
Elementary electron physics.
First term; Tu., Th., at 9.....Professor Keys.
Text-books:—Crowther's Ions, Electrons, and Ionizing Radiations (Arnold).

7A. Electromagnetic Theory. (Graduate C.)
Tues. at 10.....
Text-books:—Pierce's Electric Oscillation and Electric Waves (McGraw-Hill); *Reference book:*—Elements of Electricity and Magnetism, by J. J. Thomson (C.U.P.).

7B. Mathematical Physics. (Graduate D.)
This course includes an introduction to quantum theory and nuclear physics.
Mon., Th., at 10.....Professor Foster.
Text-books:—Houston's Introduction to Mathematical Physics (Longmans), and Page's Introduction to Theoretical Physics (Van Nostrand).

8A. Molecular Physics. (Graduate E.).
Wed., Fri., at 10 (laboratory, Mon. (or Tu.), 2-5).....Professor Shaw.
Text-book:—Crowther's Ions, Electrons and Ionizing Radiation (E. Arnold). *Reference books:*—Richtmeyer's Introduction to Modern Physics (McGraw-Hill); Strong's Procedures in Experimental Physics (Prentice-Hall); Brown's Foundations of Modern Physics (Wiley).

*Course 8B in '45-'46 and 6B in '44-'45.

8B. Theory of Heat. (Graduate F.) (Replaced by 6B in alternate sessions.*)

Mon., at 9 (laboratory, †Th. 2-5); Tutorial problem hour, Sat. at 10.
Professor Shaw.

Text-book:—Roberts' Heat and Thermodynamics (Blackie).

9. Radioactivity. (Graduate G.)

Tu., at 9, Th., at 11, laboratory, Fri., 2-5, second term.
Professor Terroux.

Reference book:—Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.).

10. Applications of Vector Analysis. (Graduate H.)*

Tu., at 10.....

11. Astrophysics.*

Tues. and Fri. 10-11 (Lab. Tues. 2-4).

Reference books:—Russel, Dugan and Stewart, Vols. I, II, Astronomy (Ginn); Aitken, The Binary Stars, (Univ. of California Pub.).

12. Applied Geophysics. (Engineering 320, Graduate W.)

A course on the theory and practice of geophysical methods as applied to problems in Engineering and Geology.

Mon. and Wed. at 9, first term.....Professor Keys.

Text-book:—Applied Geophysics, Eve and Keys, 2nd edition (Camb. Univ. Press).

Reference book:—Elements of Geophysics, Ambronn, trans. Cobb (McGraw-Hill).

Honours Courses in Mathematics and Physics

Prerequisite:—High standing in Mathematics 1; Physics 1 or 2. First Year students intending to take these Honours courses are advised to take Physics 2 and the advanced section of Mathematics 1; in this case they should also attend that part of Course 1 which deals with electricity and magnetism.

Second Year:—Mathematics 3, 4, 5; Physics, 3A, 3B, 4; (Chemistry or English or German recommended as an extra subjet).

Third Year:—Mathematics 6, 7; Physics 5A, 5B, 6A, 6B (or 8B), 6C.

Fourth Year:—Mathematics 10, 11; Physics 7A, 7B, 8A, 8B (or 6B), 9.

Third and Fourth Year Honours students are invited to attend the Physical Society and colloquia.

A reading knowledge of scientific French and German should be obtained before the end of the fourth year.

See page 262 for course in Engineering Physics.

*Courses 10 and 11 not offered in '44-'45.

†The Department of Mining and Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

Graduate Courses in Physics

See the Announcement of the Faculty of Graduate Studies and Research.

PHYSIOLOGY

Professor.....H. E. Hoff
Associate Professor.....N. Giblin
Lecturers.....S. Dworkin, Ronald Grant
Demonstrator.....Rhoda Grant

1A. Somatic Physiology.

Mon., Wed., Fri., at 11; laboratory, Tues., 2 to 5. First Term.

Prerequisites:—Chemistry, 1; Physics 1, Physiology 1B, Zoology 1A (permission may be given to students to take Physiology 1B without having taken 1B previously in special cases).

Text-books:—Carlson and Johnson, "The Machinery of the Body"; Morgan, "Physiological Psychology".

1B. Viscereal Physiology.

Mon., Wed., Fri., at 11; laboratory, Tues. or Thurs., 2 to 5. Second Term.

Prerequisites:—Chemistry 1, Physics 1, Zoology 1A.

Text-books:—Carlson and Johnson, "The Machinery of the Body".

2B. Advanced Mammalian Physiology.

Mon., Wed., at 12; laboratory, Mon., 2 to 5. Second Term.

Prerequisites:—Physiology 1A and 1B.

Text-books:—Liddell and Sherrington, "Mammalian Physiology", and selected readings.

Course 2B is given in alternate years with Physiology 3.

3. Comparative Physiology.

Tues., Thurs., at 12; laboratory, Mon., 2 to 5.

(Not given in 1944-45.)

courses for honours and graduate students

4. Advanced Physiology.

5. Applied Physiology.

Honours course in animal physiology

For general regulations concerning the Honours B.Sc. degree, see page 259.

The courses required for the Honours degree in Animal Physiology will vary somewhat, depending upon the stage at which a student decides to follow the course. It is recommended that this decision be made early, for otherwise the time-table may become crowded in the third and fourth

years. Students intending to honour in Physiology should be thoroughly grounded in both Chemistry and Physics. In the latter subject the more detailed courses 2 and 3A are to be preferred to the single general course Physics 2P.

First Year

As for the general B.Sc. course, with preferably Zoology 1A and 1B as the elective course, though Botany 1A and Zoology 1B may be taken.

Second Year

Chemistry 2, 4, 10.
German 3.
Physics 2.
Physiology 1B.
Zoology 1A (if not already taken).
Zoology 2 (if 1A already completed).

Third Year

Biochemistry 1, 2.
Botany 2A.
Histology 1 or Zoology 5.
Mathematics 2 or 3 or 16 (cannot be taken in the same year as Zoology 2).
Physiology 1A, and 2B or 3.
Zoology 2 (if not already taken).

Fourth Year

Biochemistry 4.
Chemistry 3.
Genetics 4.
Physics 3A.
Physiology 2B or 3.

PSYCHOLOGY

Professor.....William D. Tait
Associate Professor.....Chester E. Kellogg
Assistant Professor.....N. W. Morton*
Lecturer.....Dr. Frances Alexander
Sessional Lecturer.....M. H. de Jersey

1. Introduction to Psychology. Second Year.

Mon., Wed., at 10 and three laboratory periods per month to be arranged. This course is a prerequisite for all other courses.

Professor Tait and Mr. de Jersey.

Text-book:—Guilford, General Psychology.

*On war service.

2. ADVANCED PSYCHOLOGY. Third and Fourth Years.

A general survey covering the evolution of mind, individual development, experimental psychology, individual differences, and an introduction to social psychology and psychotechnics.

Mon., Wed., Fri., at 11 ..... Professor Kellogg.

3. EXPERIMENTAL PSYCHOLOGY. Third and Fourth Years.

Includes in the first term experiments upon perception, learning, feeling and emotion, etc.; in the second term, individual research projects. Lectures deal with experimental methods in psychological research. One hour's lecture and four hours' laboratory to be arranged.

Mr. de Jersey.

4. PHYSIOLOGICAL PSYCHOLOGY. Third and Fourth Years.

Study of the physiological and neurological correlates of psychological processes. Open only to students who have passed or take concurrently Course 2 or Course 3, and to B.Sc. students taking continuation work in Biology.

Text-book:—Hathaway, Physiological Psychology.

Second Term, Mon., Wed., Fri., at 10 ..... Professor Kellogg.
(Not given in 1944-45.)

5. COMPARATIVE PSYCHOLOGY. Third and Fourth Years.

Comparative study of representative species from the protozoa to man, with special attention to researches on the learning process in lower mammals and primates; prehistoric and primitive man; race differences and race problems.

Open only to students who have passed or take concurrently Course 2 or Course 3 or Zoology 1, or have passed Biology 1.

Text-book:—Maier and Schneirla, Principles of Animal Psychology; Hooten: Up From the Ape.

Mon., Wed., and Fri., at 10 ..... Professor Kellogg.
(Not given in 1944-45.)

6. CHILD PSYCHOLOGY. Third and Fourth Years.

Lectures, readings and reports (half course).

Text-book:—Arthur Jersild, Child Psychology.

First term: Tu., Th., Sat., at 11 ..... Dr. Frances Alexander.
(Given in 1944-45.)

7. Social Psychology. Third and Fourth Years.

Lectures, readings and reports:

Mon., Wed., Fri., at 12.....Professor Tait.

Text-books:—Katz and Schanck, Social Psychology; Klineberg, Social Psychology.

8. Elementary Statistical Methods. Third and Fourth Years. Practical training for beginners.

Text-books:—Walker, Elementary Statistical Methods.

First Term: Tues., Thurs., Sat., at 10.....Mr. de Jersey.

9. Educational Psychology. Third and Fourth Years.

Lectures, reading, and a thesis.

Tu., Th., Sat., at 12.....Professor Tait.

Text-book:—Starch: Educational Psychology.

10. Mental Measurements. Third and Fourth Years.

Methods of psychological testing and rating, and their clinical, educational and vocational application.

Open only to students who have passed or take concurrently Course 8 or Course 14. Number of students limited to 12.

Mon., Wed., Fri., at 12.....Dr. Frances Alexander.

11. Psychological Problems in Business and Industry. Third and Fourth Years.

Topics include the selection and training of employees; analysis of work-methods; accidents; fatigue and boredom; incentives, employer-employee relations; selling, advertising and market research.

Text-book:—Moore, Psychology for Business and Industry.

Mon., Wed., Fri., at 12.....Professor Tait.

(Not given in 1944-45.)

12. Psychology of Adolescence.

Lectures, readings and reports.

Second term, Tu., Th., Sat., at 11.....Dr. Frances Alexander.

(Given in 1944-45.)

13. Abnormal Psychology. Fourth Year.

A general introduction to the problems of personality maladjustment, mental deficiency, and mental disorders, psychological techniques in case-study, and psychotherapy.

Text-books:—Dorcus and Shaffer, Text-book of Abnormal Psychology; Maslow and Mittelmann, Principles of Abnormal Psychology; Morgan, Psychology of Abnormal People.

Open to pre-medical students in third year.

Mon., Wed., Fri., at 10.....Professor Kellogg.

14. Psychometric Methods. Fourth Year.

An intermediate general course, preparatory for research in psychology and the social sciences, or for junior grade professional services in statistics, personnel work, etc.

Text-books:—Croxton and Cowden, Applied General Statistics; Guilford, Fundamental Statistics in Psychology and Education; Dunlap, Workbook in Statistical Method.

Tu., Th., 2 to 4.....Professor Kellogg.

Honours Courses

Students contemplating Honours must take Psychology I and are advised to take Philosophy I in Second Year, also Biology and Elementary German in either First or Second Year. Admission to Honours will depend upon the student's standing in Psychology and related subjects.

Third Year:—At least two courses in Psychology, including either 2 or 3. The remaining courses should be selected in consultation with the Chairman of the Department.

Fourth Year:—Four full courses, as in third year. At the end of the Fourth Year Honours students are required to take a comprehensive examination covering the whole field. This examination may be either oral or written.

The requirements for Honours in Psychology and other subjects are two courses in Psychology and two in the other subjects selected, each year.

No student will be certified as a competent psychological examiner who has not taken at least courses 1, 3, 10, and 14.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

SOCIOLOGY

Professor.....Carl Addington Dawson
Associate Professor.....Forrest La Violette
Assistant.....Eva R. Younge

1. Introduction to the Study of Society. Second Year.

(a) Tu., Th., Sat., at 12.....Professors Dawson and La Violette.

(b) Tu., Th., Sat., at 11.....Professors Dawson and La Violette.

Text-book:—Dawson and Gettys, An Introduction to Sociology. The Ronald Press.

2. THE COMMUNITY. Third and Fourth Years.
Given 1945-46.)
Professor Dawson.

3. IMMIGRATION AND POPULATION GROWTH; THE ASSIMILATION OF ALIEN GROUPS; THE RACE FACTOR IN CANADA. Third and Fourth Years.
Tu., Th., Sat., at 9, Second Term.....Professor Dawson.

4. SOCIAL DISORGANIZATION. Third and Fourth Years.
(Given in 1945-46.)
Professor La Violette.

5. SOCIAL ORIGINS: THE CULTURE AND SOCIAL ORGANIZATION OF PRE-LITERATE PEOPLES. Third and Fourth Years.
First Term: Mon., Wed., Fri., at 9 a.m.....Professor La Violette.

6. SOCIAL MOVEMENTS. Third and Fourth Years.
Second Term: Mon., Wed., Fri., at 9 a.m.....Professor La Violette.

7. THE FAMILY. Third and Fourth Years.
Tu., Th., Sat., First Term.....Professor Dawson.

9. THE SOCIOLOGY OF THE CHILD. Third and Fourth Years.
(Given in 1945-46.)
Professor La Violette.

11. SOCIAL INSTITUTIONS. Fourth Year honours and graduates.
(Given in 1945-46.)
Professor La Violette.

12. SOCIAL ATTITUDES AND PERSONALITY. Fourth Year honours and graduates.
Hours to be arranged.
Professor La Violette

HONOURS COURSES

Second Year:—Course 1 and two courses selected from any two of the allied Departments of Economics, Psychology, Philosophy and History.

Third Your:—Two full courses.

Fourth Year:—Three full courses.

The Department makes a liberal use of courses in allied Departments in planning the programme for honours students.

Students taking honours in Sociology and one other subject are required to take two courses in each Department.

GRADUATE COURSES

For graduate courses in Sociology, see the Announcement of the Faculty of Graduate Studies and Research.

ZOOLOGY

Strathcona Professor.....

Associate Professor and Chairman of the Department.....N. J. Berrill

Associate Professor.....V. C. Wynne-Edwards

Lecturer.....Kathleen Terroux

Hon. Lecturer.....B. W. Taylor

Professor of Parasitology and Director of the Institute of Parasitology at Macdonald College....T. W. M. Cameron

Carpenter Fellow.....Paul Weisz

Research Fellow.....J. Holtfreter

1. General Zoology.

3 hours per week and 3 hours laboratory.

Professor Berrill.

Under the new plan the course is presented in two sections:

Section A. First term. The nature of man.

Mon., Wed., Fri., at 11; Laboratory: Tu. or Th., 2-5.

The structure, function, reproduction, and evolution of man as a vertebrate animal.

Section B. Second term. *Evolution of the animal Kingdom.*

Mon., Wed., Fri., at 12. Laboratory: Tu. or Th., 2-5.

A survey of the animal kingdom illustrating the general principles of evolution and adaptation.

Required textbooks:—Romer, Man and the Vertebrates; Buchsbaum, Animals without Backbones.

The following alternatives are open:

Zoology 1A and 1B; prerequisites for other courses in Zoology.

Zoology 1A and Physiology 1B.

Botany 1A and Zoology 1B: Surveys of the plant and animal kingdom, emphazing evolutionary principles.

Zoology 1A and Botany 1B, higher animals and plants.

Students who have taken Zoology 1A *or* Zoology 1B are required to complete the General Zoology Course the following year before proceeding to other courses in Zoology except in special cases.

The following sequence of courses is recommended to students taking Zoology as an Honours or as a Continuation Subject: First Year, Botany 1A and Zoology 1B; Second Year, Zoology 1A followed by Physiology 1B.

2. VERTEBRATE ZOOLOGY.

Mon., Wed., Fri., at 10. Laboratory 4½ hours (Friday 2-5; Sat. a.m. Hours to be arranged.)

Equivalent to one full course and one half.

Professor Wynne-Edwards.

The organization of the vertebrate body; the evolutionary history of organs and parts of the body (Comparative Anatomy); the origin, evolution, classification and natural history of the six classes of the vertebrate phylum; and an introduction to mammalian anatomy.

Required textbooks:—Sayles, Manual for Comparative Anatomy; Bigelow, Directions for Dissection of the Cat, *and* either: DeBeer, Vertebrate Zoology, *or* Adams, Introduction to the Vertebrates, *or* Hyman, Comparative Vertebrate Anatomy.

3. GENERAL HISTOLOGY.

First Term: Mon., Wed., Fri., at 9; Laboratory, Wed., 2-5.

Tissue types; microscopic sturcture of the main organ systems; Cytology of selected organs; tissue culture and regeneration.

Required manual: Stiles, Microscopic structure of tissue and organs.

4. GENERAL EMBRYOLOGY.

Second Term: Mon., Wed., Fri., at 9; Laboratory, Wed., 2-5.

Professor Berrill.

Comparative embryology of vertebrates, experimental morphology and general problems of development. Zoology 3 is desirable but not essential as a prerequisite.

5. HISTOLOGICAL AND CYTOLOGICAL TECHNIQUE.

Second Term: 6 hours per week.

Mon., 2-5, rest to be arranged.....Dr. Sander and

Practical training in some histological, histochemical, and cytological methods.

Open to Honours students in any Biological Department, and to non-honours students by permission of the instructors.

6. COMPARATIVE INVERTEBRATE ZOOLOGY. (For Honours students in Zoology).

Times to be arranged.

7. Advanced Vertebrate Zoology. (Not given in 1944-45).

Tu., Th., at 12, laboratory 3 hours to be arranged.

Professor Wynne-Edwards and Mr. Taylor.

Special adaptations, natural history, ecology and economic zoology of the three largest vertebrate classes, namely the Bony Fishes, Birds and Mammals. About one-half of the course is devoted to ornithology.

Physiological Zoology is offered by the Department of Physiology as Physiology 3.

HONOURS B.Sc. IN ZOOLOGY

First and Second Years. See general statement, page 260.

Students who have taken Zoology 1 in their first year and who have taken a second year alternative other than one of the six listed on page 260, should consult the Department of Zoology for further advice. Zoology 2 may be taken in the second year if Zoology I has already been taken. Biology 1 should be followed by Biology 3 in the second year.

Third Year.

The third year has been arranged so that the student has the option of obtaining his degree in Zoology either by continuing for his fourth year in the Department of Zoology or of transferring to the Department of Entomology at Macdonald College. The former alternative implies an intention to study general Zoology, the latter indicates an early intention of specializing in economic Zoology.

Third year requirements for students who have taken Zoology 1 in their second year:—

Zoology 2, 3, 4, and 5.

Any of Physiology 1B, Physiology 1A, Botany 1, Genetics 1, not already taken.

Additional courses to make a total of five.

Fourth Year:

Students may specialize in Experimental morphology, physiological zoology, comparative anatomy, or economic zoology. In the last case, properly qualified students may take their fourth year honours zoology at MacDonald College for courses in Entomology and Parasitology.

THE FACULTIES AND SCHOOLS OF THE UNIVERSITY OTHER THAN THE FACULTY OF ARTS AND SCIENCE

For brief details of these faculties and schools see the General Announcement which may be obtained from the Registrar's Office.

Separate Announcements of these faculties and schools may also be obtained from the Registrar's Office.

McGILL UNIVERSITY

MONTREAL



SCHOOL OF COMMERCE

1944-1945

McGILL UNIVERSITY

SCHOOL OF COMMERCE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.
Dean of McGill College.....Hon. Cyrus Macmillan, M.A., Ph.D., M.P.
Director of the School of Commerce..E. F. Beach, M.A., Ph.D.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.

B. COM. ADVISORY COMMITTEE

Professor E. F. Beach, *Chairman*

Professor C. A. Dawson
Professor J. P. Day
Professor W. H. Hatcher
Professor B. H. Higgins
Professor B. S. Keirstead
Dean Cyrus Macmillan
Professor D. R. Patton
Professor H. Tate
Professor R. R. Thompson
Mr. P. F. Vineberg

A complete list of the teaching staff of the University, including the School of Commerce, is printed as a separate announcement, which may be obtained from the Registrar's Office.

SCHOOL OF COMMERCE OFFICE

1020 Pine Ave. West; Telephone HA. 0998

ADVISORY COUNCIL

FOR THE

SCHOOL OF COMMERCE

THE PRINCIPAL, *Chairman*

L. J. BELNAP

SAMUEL BRONFMAN

SIDNEY DOBSON

GILBERT JACKSON

J. D. JOHNSON

G. W. SPINNEY

H. P. THORNHILL

SCHOOL OF COMMERCE

GENERAL INFORMATION

The School of Commerce offers four years of undergraduate work leading to a degree of Bachelor of Commerce (B. Com.). The work of each year will normally consist of five courses each of three class sessions per week, which sessions may be in the form of lectures, demonstrations, laboratory or discussion periods, depending on the course. A student will therefore have about fifteen hours a week of class meetings. The balance of his time will be devoted to readings, problems, the preparation of reports, essays and theses, and extra curricula activities.

Certain courses are required in each year, the remainder are to be chosen by the student. Some of the courses are primarily commerce subjects; others are regular Arts subjects taken with students who are taking the B.A. and B.Sc. degrees. The School of Commerce is an integral part of the Faculty of Arts and Science, and is therefore under the administration of the Dean of that Faculty.

The School of Commerce office is in the Arthur Purvis Memorial Hall at the corner of Pine Ave. and Peel Street. Certain commerce courses are held in the Hall, but the larger number are held in the Arts Building. A special Commerce Library is provided in Purvis Hall and students also have access to the Redpath University Library.

ENTRANCE REQUIREMENTS

Candidates for admission to the First Year of the School of Commerce in September, 1944, and thereafter for the duration of the war, are required to pass either the Arts or Science Junior Matriculation or an equivalent examination (see General Announcement).

After the war Students will be admitted to the first year of the School only if they have completed the first year of the B.A. or B.Sc. courses or their equivalent.

A limited number of partial students may be admitted. For conditions of admission see the Announcement of the Faculty of Arts and Science.

For information concerning Limited Undergraduates see the Announcement of the Faculty of Arts and Science.

Women are admitted on the same terms as men.

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

Candidates desirous of entering the School of Commerce must apply for admission before September 10th. Application forms are provided by the Registrar's Office.

ADMISSION TO THE SECOND AND THIRD YEARS

ADMISSION BY SENIOR MATRICULATION.

For the session 1944-45 and each subsequent war year but not thereafter, the Senior Matriculation Examination of the University (Commerce Division) or any examination recognized as its equivalent will admit a student directly into the Second Year, provided

(1) The student has already passed the Junior Matriculation Examination or some equivalent examination.

(2) The student has obtained a second-class average in the Senior Matriculation examination papers.

ADMISSION BY TRANSFER.

Application for transfer into an upper year of the School should be made to the Registrar's Office. It must be made on the proper form and supported by certified copies of the applicant's previous academic record. Such an application will be considered only if the student is in good standing and has a record which justifies the transfer.

Students admitted into the Second or the Third Year may be required to take certain courses compulsory in a lower year.

ADVISERS

At the time of registration each student entering the First Year is interviewed by a member of the Committee of the Board of Student Advisers. At this interview the student is given any information or advice that he may need and is assisted in the selection of his courses. At the same time he is assigned to an adviser whom he may consult at any time and should consult at least once a month.

REGISTRATION

All students entering the School of Commerce for the first time are required to attend on Freshman Day, Thursday, September 28th. Registration in all years will take place on Friday, September 29th, and Saturday, September 30th. The session opens on Monday, October 2nd. Details of the Freshman Day arrangements will be sent to all new students when they are accepted.

Students who register after the official registration days, must pay a late registration fee. For registration during the first week of the session, $5.00. For registration during the second week of the session, $10.00.

This fee is not refunded except for satisfactory reasons and by authorization of the Faculty of Arts and Science. After the 14th day of October no person is admitted to the school without the special permission of the Faculty.

Students who wish to make a change in their choice of studies must make application to the Registrar's Office to do so, on a regular form. No change in registration will be allowed, except under special circumstances, after the 15th October.

ATTENDANCE

Students of the First and Second Years and all partial students and students on probation are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses on the ground of illness, domestic affliction or accident are dealt with only by the Dean.

Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. Serious breaches of discipline are dealt with by the Dean of the Faculty.

Lectures commence at five minutes after the hour on the conclusion of the roll call, and end at five minutes before the hour. Two lates count as one absence.

In cases where it is impracticable to record late attendance, students are marked absent.

EXAMINATIONS AND ADVANCEMENT FROM YEAR TO YEAR

Information concerning examinations, supplemental examinations, and advancement from year to year, will be found in the Announcement of the Faculty of Arts and Science.

PASS MARKS, DISTINCTION AND HONOURS

The pass mark in all examinations is 50% and the marks for first and second class standing are 80% and 65% respectively.

When the student's record during his second, third and fourth years reaches a high second-class standing, a special award of "Distinction" will be made on graduation. When the record reaches first-class standing the special award made will be "Great Distinction". A student cannot receive the award of "Great Distinction", however, unless he has taken the thesis course.

A student may take a degree of Bachelor of Commerce with Honours in Economics if he elects to do so during his second year, obtains the permission of the Director, and during the four years takes a minimum of seven courses in Economics with at least a second class average.

FEES

Regular University fees and special fees are set out on the General Information Pamphlet enclosed with this Announcement.

Fees for the Evening Courses are shown on page 382.

DATES OF PAYMENT.

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m., and 2.30 to 4.30 p.m. on the following dates:—

Friday, September 29th
to
Wednesday, October 4th,

or, if desired, fees may be remitted by mail before the above dates.

The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees the Bursar sends to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

EXPENSES

An estimate of expenses will be found in the General Information Pamphlet included in this Announcement.

SCHOLARSHIPS, PRIZES AND MEDALS

See separate Announcement of Scholarships, Bursaries, Prizes, and Loan Funds.

COMMERCIAL SOCIETY LOAN FUND

A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Applications should be made to the Director of the School of Commerce.

CURRICULUM

The curriculum leading to a B.Com. degree consists in part of compulsory courses and in part of optional courses chosen in accordance with the student's individual interests. As optional courses a student may take any courses offered in the Faculty of Arts and Science which are approved by the Director. Generally wide latitude is allowed. A student in any year is expected to satisfy himself before he selects any optional course:

(1) That he has completed any pre-requisite work that the Department concerned may require of students entering that course, and,

(2) That there is no conflict in his time-table.

Students at the time of registration have an opportunity of discussing with their advisers the optional courses that they may wish to take.

Compulsory Courses	Optional Courses
First Year	
Economic History	One of French 1**
Accounting 1	Spanish 1
Mathematics 1	German 1
English 1 and 2	
Second Year	
Elements of Economics	Two full courses or the equivalent
Accounting 2	in half courses chosen from
Science in Economics Life 1*	Commercial Law 1
	Mathematics 15***
	English 4, 6, 7, 15
	French 2
	German 2
	Spanish 2
	Psychology 1
	Philosophy 1
	Sociology 1
	History 1, 2, 3, 11
Third Year	
Economic Statistics	The equivalent of two full courses
Economic Distribution	of:—
Science in Economic Life II*	Accounting 3
	Commercial Law
	Industrial Relations
	Economics
	Mathematics
	Languages,
	etc.

FOURTH YEAR

Money and Banking
Science in Economic Life III*
The equivalent of three full courses of:—
- Accounting 4
- Business Organization
- Industrial Relations
- Thesis
- Economics
- Mathematics
- Languages
- etc.

Fourth year students who have had a second class average are recommended to take the thesis course. No student can graduate with Great Distinction unless he has taken this thesis course.

STUDENTS WORKING TOWARDS A PROFESSION

Students who intend after graduation to enter a profession should acquaint themselves for admission to that profession, and should take these requirements into consideration when choosing their optional courses.

The Society of Chartered Accountants and the Corporation of Public Accountants both require that the following courses be taken for the degree of Bachelor of Commerce by candidates seeking admission to their associations—

Four courses in Theory and Practice of Accounts.
Business Organization and Management.
Commercial Law (Minimum pass mark 55%).
Economics 1.
Mathematics 15 and 17.

For further particulars see below pp. 379, 380.

THE MASTER OF COMMERCE DEGREE

Bachelors of Commerce who have obtained at least second class standing and who have the permission of the Director of the School of Commerce and of the Department of Economics may proceed to the Master of Commerce Degree. For particulars see the Announcement of the Faculty of Graduate Studies and Research.

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*This is a three year course with demonstrations not involving laboratory work. Science in Economic Life II will not be given during 1944-45, and therefore Science in Economic Life III will be taken in second year.

**See page 369.

***Mathematics 15 is compulsory for students who intend to specialize in Accounting or in Economics.

COURSES OF LECTURES

For convenience of this announcement, the following courses are grouped into Commerce and Arts subjects, although the grouping is not precise. Accounting, Commercial Law, Science in Economic Life, Industrial Relations, and the Thesis Course are taken almost wholly by Commerce students. Courses in Economics and Mathematics are an integral part of the Commerce curriculum but are offered by the corresponding department of the Faculty of Arts and Science.

COMMERCE COURSES

ECONOMICS

The following five courses in Economics are compulsory for students in the School for Commerce:

FIRST YEAR—ECONOMIC HISTORY (ECONOMICS 17)

Evolution of economic institutions; the Ancient Empires; economic and social aspects of the Decline and Fall of the Roman Empire; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money; the Voyages of Discovery; religion and the rise of capitalism; Nationalism and Mercantilism; the Colonial System; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the Gold Standard; evolution of the central banking function; recent economic changes.

Tues., Thurs., Sat., at 9.....Professor James.

SECOND YEAR—ELEMENTS OF ECONOMICS (ECONOMICS 1C)

Wants and their characteristics; the purpose of production; what is meant by production; the factors of production; land, labour and capital; large scale production; the necessity for exchange and its problems; value and price; money; the quantity theory; the business cycle; the creation of credit; the Canadian banking system; Foreign Exchange; free trade and protection; the problems of distribution; rent; wages; labour organizations; interest; profits; alternative social systems.

Tues., Thurs., Sat., at 10.....Professor Beach.

THIRD YEAR—ECONOMIC STATISTICS (ECONOMICS 8)

Scope and meaning of statistics; publications of the Dominion Statistician and of government departments in Whitehall and Washington; the general method of statistical investigation; graphics; tabulation and frequency distribution; averages and the measurement of variations; index numbers; correlation; sampling and significance; analysis of time series; interpretation of statistical results.

Exercises and reports are an integral part of this course and students wishing to take it must be familiar with algebra and co-ordinate geometry. Tues. and Thurs., at 4 p.m., with laboratory to be arranged.

Professor Beach.

THIRD YEAR—ECONOMIC DISTRIBUTION (ECONOMICS 12)

A continuation of the principles of economics with particular reference to the conditions governing the distribution of the total national production among the members of the economy in the form of wages, interest, profits and economic rent.

Mon., Wed., Fri., at 11.....Professor Day.

FOURTH YEAR—MONEY AND BANKING (ECONOMICS 5)

A continuation of the principles of economics with particular reference to the exchange of goods and services and the part played by money and credit in facilitating this exchange.

Tues., Thurs., Sat., at 10.....Professor Day.

The following are *optional* courses in Economics for students in the School of Commerce:

A student may take a B.Com. degree with Honours in Economics if he elects to do so during his second year, obtains the permission of the Director, and during his four years takes a minimum of seven courses in Economics with at least a second class average.

Econ. 2.—Elements of Political Science.
Mon., Wed., Fri., at 12.....Prof. Keirstead.

Econ. 3.—History of Political Theory.
Tues., Thurs., Sat., at 9.....Prof. Keirstead.

Econ. 4.—Labour Problems.
First Term: Tues., Thurs., Sat., at 12.....Mr. Vineberg.

Econ. 6.—Canada: Geographic, Industrial and Economic Problems.
First Term: Tues., Thurs., at 3.
(Not given in 1944-45).

Econ. 7.—The Government of Canada.
Second Term: Mon., Wed., Fri., at 3.....Mr. Vineberg.

Econ. 9.—Contemporary Economic Theory.
First Term: Tues., Thurs., Sat., at 10.....Prof. Keirstead.

Econ. 10.—International Trade and Trade Policy.
Mon., Wed., Fri., at 10.....Prof. Day.

Econ. 11.—Business Cycles.
First Term: Tues., 3-4.30.....Prof. Keirstead.

Econ. 13.—Transportation.
First Term: Tues., Thurs., Sat., at 12.....Prof. Culliton.
(Not given in 1944-45).

Econ. 14.—Government Regulation of Industry.
Tues., Thurs., at 2.....Prof. Higgins.

Econ. 15.—Corporation Finance.
Second Term: Mon., Wed., Fri., at 12.....Mr. Vineberg.

Econ. 16.—The North American Economy—Historic and Geographic.
Tues., Thurs., Sat., at 9.....Prof. Higgins.

Econ. 18.—Fiscal Policy.
Second Term: Tues., Thurs., at 4-5.30.....Prof. Higgins.
Economics 2 is a prerequisite to Economics 3 and 7. Economics 11 is a prerequisite to Economics 18.

ACCOUNTANCY

The first and second year courses are obligatory; third and fourth years are optional.

First Year—The Theory and Practice of Accounts (Accounting 1)

The principle of debit and credit; books of original record; business documents; sales, purchases, consignments; returns inwards and returns outwards; correction of errors; subsidiary ledgers, and controlling accounts special forms of cash-book required to facilitate control; notes and dratfs, discounting and renewal of notes; prepaid and accrued charges, depreciation, reserves, single entry; revenue and capital expenditure; trading, and profit and loss statements and balance sheet; single proprietorships; elements of corporation finance.

Mon., Wed., Fri., at 12.....Professor Thompson.

If it is necessary that this course should be given with the evening course in the Elements of Accounting, students will have the option of taking it on Mondays 7-9 p.m. or Tuesdays 6.30-8.30 p.m.

Second Year—The Theory and Practice of Accounts (Accounting 2)

Partnerships; classes of partners and of partnerships; rights, duties and powers of partners, the partnership agreement; distribution of profits; admission and withdrawal of partners; partnership dissolution; sale of a partnership to a corporation; goodwill.

Manufacturing accounts and statements; elements of cost; depreciations.

Corporations; formation and control of corporations; shareholders and directors; dividends; books of account; statements.

Departmental accounts. Comparison of operations by periods; reports on operations. The Voucher-register. Reserves and Reserve Funds.

Mon., Wed., Fri., at 9.....Professor Patton.

THIRD YEAR—THE THEORY AND PRACTICE OF ACCOUNTS(ACCOUNTING 3)

Theory of the Balance Sheet; its form and content; valuation of fixed and current assets and liabilities, wasting assets, capital and revenue receipts and expenditures, and profits and losses, net worth.

Bonds and debentures; classification; security; the Trust Deed; Bond Issue and Redemption; interest and discount; amortization; sinking fund; Secret reserves.

Capital Stock, preferred and common shares; shares of no par value; forfeited stock; Treasury Stock. Earned capital and distributable surplus.

Critical analysis of the Balance Sheet; comparative balance sheets; schedule of working capital; sources and applications of funds, equity of preferred and common shares; comparative ratios.

Branch Accounts; merchandise charged at cost; intermediary or selling prices; foreign branches; conversion of accounts in foreign currency.

Auditing; classification and scope; internal check; fraud and error in accounts; rights, duties and responsibility of auditors; legal regulations; audit procedure and programme; audit certificate and reports. Audit working papers. Investigations.

Tues , Thurs., and Sat., at 9.....Professor Thompson.

FOURTH YEAR—THE THEORY AND PRACTICE OF ACCOUNTS
(ACCOUNTING 4)

Cost Accounting; Terms and Cost Formulae; Elements of Cost; the general accounts and the Cost Records; materials—purchasing, receiving, storage, and consumption of materials; labour—time reports and payrolls, labour reports and distributions; manufacturing expense—principles of procedure, distribution to departments and to production; operating and financial statements; cost reports; estimating cost systems; standard costs; variances, cost ratios.

Budgetary Control, preparation and control of the budget, variable expense budget.

Holding Companies; Consolidated Statements; Inter-company transactions and accounts;—Stock and Bond holdings; Investment Accounts; minority interest.

Re-organizations, mergers and amalgamations—rights and privileges of creditors and shareholders, plan of reconstruction.

Executorships; Charge and Discharge Statements; Capital and Income; division of an estate; succession duties.

Bankruptcy and Liquidation Accounts; Receiver's Accounts; priority of creditors; Statement of Affairs; Deficiency Account; Realization and Liquidation Statement.

Income and Excess Profits Taxes; Individual Proprietors; Corporations; general considerations; Taxable Income; Refundable Portion; Standard Profits.

Mon., Wed., Fri., at 11.....Professor Thompson.

BUSINESS ORGANIZATION AND SCIENTIFIC MANAGEMENT

Commercial Organization: Origin, growth and clasification of business organization; tests of efficiency in business organizations. Social, economic and legal aspects in the following types of organization: single proprietorship; partnership; joint stock company, public and private corporations; rights, duties, and liabilities of directors, officers, shareholders, and debenture-holders; agreements, pools, kartells, simple business trusts; combination trusts; securities-holding organization; amalgamation, and mergers; launching of an industrial enterprise; planning a budget; planning a factory; purchase and control of raw materials; labour and its control; wage systems, welfare work; reorganization of a factory; committee system; location of industries; principles and types of management; departmental relations; standardization and equipment; standardized operations; adequate records; efficiency rewards; organizations for the development of trade.

Tues., Thurs., Sat., at 11.....Professor Thompson.

In the year 1944-45, a thesis on a business, accounting or related topic may be submitted for this course. See Thesis Course.

MATHEMATICS

First Year

1. (*a*) Trigonometry. Three hours, first term.
Angles of any magnitude. Trigonometric functions of a single angle. Trigonometric functions of two or more angles. Solution of trigonometric equations. Relations between the sides and angles of a triangle. Solution of triangles with logarithms. Inverse functions.

(*b*) Algebra. Three hours, second term.
Ratio, proportion and variation; arithmetic, geometric and harmonic progressions; theory of quadratic equations; logarithms; permutations and combinations; binomial theorem; graphical calculus.

Mon., Wed., Fri., at 11.....Professor Tate.

Second Year

15. Elements of Coordinate Geometry:
(a) Algebra.
Complex numbers; properties of polynomials; theory of equations; determinants; probability; partial fractions; infinite series; finite differences and interpolation.

(*b*) Coordinate Geometry.
The coordinate geometry of the straight line, circle, parabola, ellipse and hyperbola.

Mon., Wed., Fri., at 12.....Professor Tate.

Third and Fourth Years

16. Elementary Calculus.

The derivative; differentiation of algebraic, exponential, logarithmic and trigonometric functions; applications of the derivative to the determination of maximum and minimum values, etc., partial differentiation; expansion of standard functions in series; definition and methods of integration; the definite integral.

Mon., Wed., Fri., at 10 ..... Professor Tate.

17. Theory of Interest and Life Contingencies.

(*a*) Theory of Interest.

Simple and compound interest and discount; force of interest and discount; annuities certain, continuous annuities and sinking funds; depreciation and capitalized cost; amortization schedule; building and loan associations; straight-term, serial and annuity bonds.

(*b*) Theory of Life Contingencies.

The mortality table; probabilities of life; statistical applications of the mortality table; life annuities and assurances, including the calculation of premiums and reserves; modern reserve systems; conversion tables; return of premiums.

Tu., Th., Sat., at 11 ..... Professor Tate.

The following courses are also open to qualified students in the School of Commerce during the second, third and fourth years.

2. Elementary Analysis.

Mon., Wed., Fri., at 10 ..... Mr. Rosenthall.

3. Calculus.

Mon., Wed., Fri., at 10 ..... Prof. Sullivan.

4. Algebra and Analytical Geometry.

Tu., Th., Sat., at 12 ..... Prof. Ross.

8. Advanced Algebra and Finite Differences.

Tu., Th., Sat., at 12 ..... Professor Tate.

(*a*) Mathematics 2 may be substituted for Mathematics 15 in case of a conflict with Accounting 1.

(*b*) Mathematics 3, 4 and 8 are mainly intended for those Commerce students who wish to enter the actuarial profession.

(*c*) Mathematics 17 is necessary for students who wish to proceed to the diploma of Licentiate in Accountancy.

(*d*) Mathematics 16 and 17 may be taken either in the third year or fourth year.

LAW

COMMERCIAL LAW 1.

Law of Contracts, Sale, Agency, Partnership, Company Law and Negotiable Instruments.

Tues., Thurs. and Sat., at 9.....Mr. P. F. Vineberg.

COMMERCIAL LAW 2.

Civil Responsibility, Lease and Hire.

Suretyship, Bankruptcy, Law or Taxation.

Hours to be arranged.....Mr. P. F. Vineberg.

(Not given during 1943-44)

JURISPRUDENCE.

This course is an enquiry into the nature and function of Law, its relation to society and the state, and a review of the principal institutions of a state.

(Not offered 1944-45).....Professor Humphrey.

INTERNATIONAL LAW.

This course consists of an enquiry into th origin and nature of International Law, its scope and authority, and its history and contemporary development.

Taken with students in Law Faculty with permission of Professor Humphrey.

(Hours to be arranged).....Professor Humphrey.

(The courses in Jurisprudence and International Law are open to all students in the Faculty of Arts and Science in their third and fourth years.)

INDUSTRIAL RELATIONS

An introduction to the problems of employer-employee relations, including the management of personnel legislation, and employee organizations. Plant visits and reports are an integral part of this course. Meetings are held in Purvis Hall.

Second Term—Mon., Wed., Fri., at 9..... Professor Beach.

SCIENCE IN ECONOMIC LIFE

These courses are designed to give the student an understanding of the various factors in man's physical environment that determine his manifold activities and his ability to utilize them to his advantage. In general, these factors are the subject matter of several physical sciences.

1. Earth and Related Sciences.

The various units of the earth's surface and their effects on climates and other features are discussed. The influence of these units on the occurrences of metals, non-metals, forest and agricultural products is considered along with the fundamental problems of transportation and power.

Mon., Wed., Fri., at 11 (Museum).....Prof. Osborne.

2. Physics.*

The student is introduced to the general aspects of physics, and from these the treatment leads to a consideration of how forces affect matter. The generation, transmission, and utilization of power.

3. Chemistry.

Chemistry has two classical subdivisions, organic and inorganic, and both with their many ramifications determine the ways in which matter can be made to serve man and, therefore, be of economic importance to him. The general and most useful principles of chemistry are treated so that the student can appreciate the rôle this science plays in modern industry.

Tues. and Thurs. at 2, third hour to be arranged....Prof. Hatcher.

THESIS COURSE

Students who have been recommended by the Director (generally those with a good second class average or better) should write a thesis under the direction of one of the instructors in the School of Commerce. Such a thesis will have the value of one full course. In order to graduate with Great Distinction a student must take this course. The students will meet at a time and place to be announced. Subjects must be chosen and accepted by the Director by October 20th. A descriptive outline of the subject must be submitted to the Instructor by December 1st, and the final report, typewritten, must be submitted to the Director not later than April 1st.

*Not offered 1944-45.

ARTS COURSES

ENGLISH

The courses in English give a general training in Composition and require a broad study of English Literature with a large amount of reading.

First Year

English 2, Literature, and Composition, as prescribed for students in the Faculty of Arts and Science—a general course. Readings and weekly individual conferences. Two hours a week. Professors Macmillan, Noad, Miss Mackenzie, and assistants.

Second Year

English Literature: Choice of Second Year Arts and Science courses.

Third or Fourth Year

A choice of any General Arts and Science courses in English in these years.

FRENCH

French 1. Students who do not intend to continue their study of French beyond the first year are advised to join a special section of this course in which there will be more emphasis on language and less on literature. Students who intend to continue their studies in French should take the regular French courses.

Mon., Wed., Fri., at 9, 11, 2..Professor Furness and others.

French 2. General Survey of French Literature from the Middle Ages through the Sixteenth and Seventeenth Centuries; French Composition.

Tues., Thurs., Sat., at 9, 11.....Professor Furness and others.

French 5. French Civilization; Geographical Outline; Political, Social and Economic Aspects of French Life.

Mon., Wed., Fri., at 12.....Prof. Darbelnet.

For additional Courses in French, see the Announcement of the Faculty of Arts and Science.

GERMAN

German 1. German Language.

Tues., Thurs., Sat., at 9.....Mr. Beck and Miss Meyer.

German 2. German Language.

Tues., Thurs., Sat., at 10.....Prof. Graff and Miss Meyer.

German 5. German Language.

Mon., Wed., Fri., at 11.....Miss Meyer.

For additional courses in German, see the Accouncement of the Faculty of Arts and Science.

HISTORY

History 1A. European Civilization since the Roman Empire and its Expansion Overseas.

Tu., Th., Sat., at 9.....Professors Bagley and Cooper.

History 2. General History of North and South America.

Mon., Wed., Fri., at 9.....Professor Adair.

History 3. History of the British Empire.

Tu., Th., Sat., at 10.....Professor Cooper.

History 11. Canada and the United States: Their Diplomatic and Economic Relations from Colonial Times to the Present.

Tu., Th., Sat., at 11.....Professor Cooper.

For additional courses in History, see the Announcement of the Faculty of Arts and Science.

PSYCHOLOGY

1. Introduction to Psychology. Second Year.

Mon., Wed., at 10 and one week laboratory period to be arranged. This course is a prerequisite for all other courses.

Professor Tait.

10. Individual Differences and their Measurement. Third and Fourth Years.

Origins and growth of individual differences; methods of testing and rating; theories of organization of personality traits; applications in educational and vocational guidance. Students may devote some time to practical testing; if facilities are available.

Mon., Wed., Fri., at 12, First Term.....

11. Psychological Problems in Business and Industry. Third and Fourth Years.

Topics include the selection and training of employees; analysis of work-methods; accidents; fatigue and boredom; incentives, employer-employee relations; selling, advertising and market research.

Mon., Wed., Fri., at 12, Second Term.....

Text-book:—Moore, Psychology for Business and Industry.

For additional Psychology courses available, see the Announcement of the Faculty of Arts and Sciences.

SPANISH

1. First Year.—Grammar, reading and dictation, oral exercises and composition.

Mon., Wed., Fri., at 2, 3 or 4.....Mrs. Henry.

2. Second Year.—Further cultural reading, translation, free composition, conversation.

Tues., Th., Sat., at 11.....Mrs. Henry.

3. Third Year.—Novelists of XIXth Century. Advanced composition, translation, conversation.

EVENING COURSES

The evening courses are held in the Arts Building. With the exception of the Elements of Accounting, none of these courses are accepted for credit toward a B.Com. degree. An examination is held at the end of each course, unless otherwise specified in the description of the course, and a certificate is granted by the University to successful candidates. Additional evening courses are offered through the Extension Office, upon which information can be obtained in the Administration Building.

Students register and pay fees in the Arts Building from 5 to 7 p.m. from Monday, October 2nd, through Friday, October 13th.

For further information telephone HA. 0998.

ELEMENTS OF ACCOUNTING

Twenty-five lectures of two hours each.

A pass from this course is a pre-requisite to Intermediate Accounting and Auditing.

The work covers matter outlined for the first year of the regular Commerce course, and is intended for less experienced students. Students who have passed in First Year Accounting at McGill University, or in Senior Matriculation in Accounting, are exempted from attendance at this course and its examination.

Section 1 on Mondays, 7-9 p.m., commencing October 2nd.

Lecturer: Mr. G. B. A. Hall.

Demonstrator: Mr. J. W. Bedbrooke.

Section 2 on Tuesdays, 6.30-8.30, commencing October 3rd.

Lecturer: Mr. A. V. Harris.

Demonstrator: Mr. J. Newland.

INTERMEDIATE ACCOUNTING AND AUDITING (PART I)

Twenty-five lectures of two hours each, given on Wednesdays, from 6 to 8 p.m., commencing October 4th. Students will be required to submit home-work for correction and return.

Principles for Operating Statements and Balance Sheets; Partnerships, formation, special problems, dissolution, sale to a corporation; Goodwill; Incorporated Companies, organizations, share capital, bonds, annual meetings, statements, auditors; Manufacturing; Exceptional Losses; Departmentalization, distribution of expenses and income; Depreciation; Comparison of Operating Statements; Working Papers.

Lecturer.....Mr. P. K. Nutt

Demonstrator.....Mr. D. Luterman

INTERMEDIATE ACCOUNTING AND AUDITING (PART II)

Twenty-five lectures of two hours each, given on Wednesdays, from 6-8 p.m., commencing October 4th. Students will be required to submit home-work for correction and return.

Balance Sheet Valuations, Current and fixed assets and liabilities, Wasting Assets, Bonds and Debentures, Reserves. Capital Stock, classification of shares, no par value regulations, forfeited stocks, treasury stock. Earned, Capital and Distributable Surplus, Capital and Revenue Profits and Losses, Uncompleted Contracts, Dividends. Critical analysis of the Balance Sheets. Comparative Balance Sheets and Operating Statements. Need and purpose of audits. Fraud and Error in accounts. Types and characteristics of audits. Rights, duties, and responsibilities of auditors. Audit of operations, verification of Assets and Liabilities. Working Papers. Investigations. Reconstruction and reorganization of Companies; mergers and amalgamations, Holding Company and subsidiaries, minority interests. Consolidated Statements.

Lecturer.....Mr. C. K. Anderson.
Demonstrator.....Mr. H. E. Conklin.

Passes from the examinations of Parts I and II of the Intermediate Accounting and Auditing course are pre-requisites to sitting for the Intermediate Examination in Accounting and Auditing of the Society of Chartered Accountants of the Province of Quebec.

FINAL ACCOUNTING AND AUDITING (PART I)

Part I should be passed before the student takes Part II.

50 lectures of two hours each given Mondays and Thursdays, from 6 to 8 p.m., beginning October 2nd. Students will be required to answer test papers and submit solutions for correction and return. 24 per cent of the final marks in the course will be awarded for homework and 76 per cent for the examinations taken at the dn of the Part I course.

Criticism of operating statements and balance sheets; branch accounts; executorship and trustee accounts; holding companies and subsidiaries; bankruptcy and liquidation accounts; cost accounting; reorganizations; mergers and amalgamations; investigations; budgets and budgetary control; income tax; powers, duties and liabilities of auditors; audit procedure; working papers; internal check systems; rules of professional conduct; accountants' reports, etc.

Lecturers: (Mondays).....Mr. A. W. Gilmour
(Thursdays).....Professor D. R. Patton
Demonstrators: (Mondays).....Mr. P. K. Nutt
(Thursdays).....Mr. J. C. Newland

FINAL ACCOUNTING AND AUDITING (PART II)

50 lectures of two hours each, given on Wednesdays and Fridays, from 6 to 8 p.m., commencing October 4th. Students will be required to answer test papers and submit solutions for correction and return. 24 per cent of the final marks in the course will be awarded on homework and 76 per cent for the examinations at the end of the course.

On Fridays this course develops the studies in auditing, and the writing of reports, etc.

On Wednesdays, it is mainly devoted to the accounting systems, and special considerations in the audit of the following:

Insurance companies (fire, casualty and life); stock-brokers; municipalities; investment trusts; finance companies; lumbering companies; pulp and paper companies; chain and department stores; contractors; hospitals; clubs; professional firms, etc., etc.

Lecturers { (Wednesdays) ..... Mr. P. F. Seymour
(Fridays) ..... Mr. C. N. Knowles

Demonstrator (Wednesdays) ..... Mr. C. D. Mellor

Part I should be passed before the student takes Part II.

Part II should be passed before the student sits for the Final Examinations in Accounting and Auditing of the Society of Chartered Accountants of the Province of Quebec. Students who took Part I of this course previously to the session 1943-44 must pass the examinations on both Parts.

INTERMEDIATE MATHEMATICS

Twenty lectures of 1 hour each on Algebra and twenty lectures of 1 hour each on Theory of Interest, given on Fridays, from 6 to 8 p.m., commencing October 6th.

Arithmetic and geometric progressions; indices; logarithms; permutations and combinations; binomial theorem; theory of quadratic equations; approximations; graphs, simple and compound interest; annuities and sinking funds.

Text-books:—D. Larrett. A Senior Algebra (George G. Harrop and Co., London). H. Tate, Elements of the Mathematical Theory of Interest (Chaps. I, III, IV).

Lecturer ..... Professor Herbert Tate.

FINAL MATHEMATICS

ELEMENTS OF ACTUARIAL SCIENCE.

Twenty lectures of 1 hour each on Theory of Interest and twenty lectures of 1 hour each on Insurance, on Tuesdays, from 6 to 8 p.m., beginning October 3rd.

The course embraces:—

The amortization schedule; straight-term, serial and annuity bonds; depreciation; building and loan associations. Elementary Insurance. Elementary Statistics.

Lecturer.....Professor Herbert Tate.

Text-books:—H. Tate, Elements of the Mathematical Theory of Interest (chapters I-VIII); J. B. Maclean, Life Insurance; S. Huebner, Life Insurance.

COMMERCIAL LAW

Twenty-five lectures of 2 hours each. On Tuesdays from 7-9 p.m., beginning October 3rd.

Law of Contracts, Sale, Agency, Partnership, Company Law, Negotiable Instruments, and Taxation.

Lecturer..... Mr. P. F. Vineberg.

ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 6 to 7 p.m., beginning October 6th.

Lecturer.....Professor Day.

FUNDAMENTALS OF COST ACCOUNTING

Thirty lectures of one hour each given on Mondays from 8-9 p.m., commencing October 2nd.

This course deals with the fundamentals of Cost Accounting from the opening entries to the presentation of the Statements and Reports, discussing the following subjects: Purposes, Advantages and Installation of Cost Systems; Process and Job Costs; Elements of Cost; Purchasing, Consumption and Accounting for Materials; Perpetual Inventories and Stores Control; Accounting for Labour Costs; Wage Systems; Accounting for Manufacturing Expenses and their apportionment over departments and distribution to production; the Cost to Make and Sell; Production Records; Control of the Cost records by the General Accounts; Operating and Financial Statements and Cost Reports.

Lecturer.....Mr. F. A. Rutherford.

ADVANCED COST ACCOUNTING

Thirty lectures of one hour each, given on Mondays, from 6.30 to 7.30 p.m., commencing October 2nd.

This course is designed for those having a fundamental knowledge of Cost Accounting principles and procedure. It deals with—Estimating Cost Systems; Budgetary Control, variable budgets; principles of Standard Costs, current and basic standards, variances, cost ratios; Defective and Spoiled Work; By-Products; Idle and Non-Productive Time; Weighted Averages; Relative Values; Interest on Investment; Uniform cost methods; Building up Cost Sheet; Statistical and Graphical Cost Reports; Statements. It includes the actual working out of a practice cost system.

Lecturer.....Mr. A. V. Harris.

INDUSTRIAL MANAGEMENT

Thirty lectures of one hour each on Mondays from 7.45 to 8.45 p.m., commencing October 2nd.

This course is designed primarily to cover the various problems which are encountered in managing an industrial establishment. It covers legal and internal forms of organization; location, construction and lay-out of plant; purchasing, production, advertising, sales, shipping and traffic; finance, accounting, engineering, power, maintenance and executive control; employment, wage systems and welfare work; industrial relations and leadership.

Lecturer.....Mr. C. N. Knowles.

INDUSTRIAL LAW

Thirty lectures of an hour each on Tuesdays from 6 to 7 p.m.

International industrial law (the International Labour Organization, etc.); fundamentals of Canadian constitutional law with special reference to the distribution of powers federal and provincial authorities in industrial and labour matters; fundamentals of the Quebec law of contracts; the contract of employment; work by estimate and contract; collective bargaining; minimum wage legislation; maximum hours of labour legislation; factory legislation; fundamentals of Quebec law of delicts and workmen's compensation; unemployment insurance; old age pensions, etc.; alien labour laws; status of trade unions; strikes; lock-outs; conspiracies in restraint of trade; Combines Investigation Act; industrial disputes; patents; trademarks; unfair competition; copyrights.

This course is not offered in 1944-45.

DUTIES OF SECRETARIES OF JOINT STOCK COMPANIES

Twenty lectures of one and one-half hours each, on Mondays, commencing on Monday, October 2nd, at 6.30 p.m. There is no examination.

The procedure and administration of Companies registered under the Companies Acts, from their promotion to their dissolution, with special attention to the work of the secretary and the practice involved, also the routine work of a secretary's office. Business management and office organization; Division of responsibility; General systems of control and internal check; Responsibilities and duties of the officers of a Company, Income Tax. Detailed study of: Notices of meetings; The constitution of a meeting, quorum, chairman; The powers and duties of a chairman; The general conduct of a meeting (discussion and order in debate); The agenda paper, adjournments and postponements; Motions and resolutions; amendments, previous questions and closure; Voting and proxies; Minutes. A study of: Fair comment and privilege in speeches, The Preservation of order at public meetings, Expulsion from meetings, Admission of the press to meetings, Newspaper reports of meetings. A detailed study of the Law, Conduct and Procedure at Company Meetings; Meetings of Directors; notice quorum, privilege in speeches, minutes, committees; Meetings of Shareholders, kinds of meetings, notices, chairman, proceedings at general meetings, resolutions, and amendments, voting, proxies, adjournments, minutes, privilege in speeches.

Lecturer.....Mr. A. S. Keiller.

ACCOUNTANCY DIPLOMA COURSES

General

Evening courses in Accountancy and allied subjects have been arranged by the University in co-operation with the Accountancy Associations of the Province of Quebec.

Students should plan their courses in accordance with the requirements of the diploma for which they are working, so that they will not have more than six class hours in a week.

In addition to the Association qualifying examinations the University gives an examination at the end of each course, and grants a certificate to candidates who successfully pass the examination.

Attendance

Students who are absent for more than one-eighth of the classes and do not have a proper written excuse, such as a medical certificate or a letter from their firm showing that their duties prevented attendance, will not be allowed to sit for the course examinations.

Pass Marks

In all courses the pass mark is sixty (60) per cent.

The pass mark in Final Accounting and Auditing Part I and in Final Accounting and Auditing Part II, in which there are two examinations at the end of each part, an average pass mark of 60% on each set of two papers is accepted, with a minimum of 50% on each paper.

A student who obtains less than forty (40) per cent in any examination must repeat both the classes and the examinations of the course concerned.

A student who fails to pass an examination but obtains forty (40) per cent or more is required only to repeat the examinations of the course.

PROFESSIONAL ACCOUNTANCY ASSOCIATIONS OF THE PROVINCE OF QUEBEC

The Society of Chartered Accountants, the Corporation of Public Accountants, and the Institute of Accountants and Auditors conduct their own qualifying examinations, but certain of these associations require that candidates must have previously passed the University examinations for the courses.

Details of apprenticeship and other matters concerning these associations can be obtained from:—

Mrs. Ethel Dixon, Assistant Secretary, The Society of Chartered Accountants of the Province of Quebec, 430 Canada Cement Building.

Mr. A. J. M. Petrie, Secretary, Corporation of Public Accountants of the Province of Quebec, 360 St. James St. West.

Mrs. H. J. Ross, L.I.A., Secretary, Institute of Accountants and Auditors, 771 Burnside Street.

The normal plan of studies for one who attempts to obtain an accounting diploma requires five years, paralleling the five years of apprenticeship in the office of a practising accountant and might be arranged as follows:

First Year:	Elements of Accounting (Mondays and Tuesdays)
	Intermediate Mathematics (Fridays)
Second Year:	Intermediate Accounting and Auditing, Part I, (Wednesdays)
	Final Mathematics (Tuesdays)
Third Year:	Intermediate Accounting and Auditing, Part II (Wednesdays)
	Commercial Law (Tuesdays)
	Economics (Fridays)
Fourth Year:	Final Accounting and Auditing, Part I (Mondays and Thursdays)
Fifth Year:	Final Accounting and Auditing, Part II (Wednesdays and Fridays)

Appliction for Re-examination or Examination Outside Montreal.

The fees for the above examinations are to be found on page 383.

All applications for re-examination or examination outside of Montreal must be made to the Director of the School of Commerce before March 25th, accompanied by the required fee, and including a statement as to the period in which the classes were taken.

Examination centres may be established outside of Montreal in special circumstances, if the applicant pays all invigiliation and other expenses in addition to the regular examination fee.

Association Examinations.

The qualifying examinations of the Accountancy Associations are conducted by the Association under their own regulations.

THE SOCIETY OF CHARTERED ACCOUNTANTS

The Society of Chartered Accountants of the Province of Quebec has two sets of qualifying examinations: Intermediate Accounting and Auditing and Final Accounting and Auditing. Both sets of examinations are held annually, about the beginning of December. Application to sit for these examinations must be made to the Secretary of the Society, with proof that the necessary requirements have been met.

The Intermediate Accounting and Auditing examinations consist of four papers and are normally taken after three years of evening study. Before sitting for these examinations, the candidate must have passed the following course examinations:—

Elements of Accounting.
Intermediate Accounting and Auditing (Parts I and II).
Intermediate and Final Mathematics.
Commercial Law.
Economics.

The Final Accounting and Auditing examinations consist of six papers and are taken only after all of the course examinations have been passed. Thus the additional courses are:

Final Accounting and Auditing (Parts I and II).

The examinations in the courses in Final Accounting and Auditing are usually called Pre-Final examinations. Two papers will be written at the end of each part of the course.

A Bachelor of Commerce of McGill University upon registering with the Society as a student is given exemption from all these evening courses except the Final Accounting and Auditing courses if he satisfies the conditions set out below. He may therefore present himself for the Intermediate Accounting and Auditing examinations of the Society in the December following his graduation if he has included the following courses as part of his undergraduate work and in Commercial Law obtained 55 per cent:

Four courses in the Theory and Practice of Accounts.
Business Organization and Scientific Management.
Commercial Law.
Elements of Economics.
Mathematics 15 and 17.

The Final Accounting and Auditing Examination may be taken by a Bachelor of Commerce of McGill University after the following requirements have been satisfied:

1. He must have registered with the Society as one of its students.
2. He must have passed the Society's Intermediate Accounting and Auditing examinations.
3 Subsequent to the passing of the Society's Intermediate Examinations, he must have served two years in the office of a practising Chartered Accountant in the Province of Quebec.
4. He must have attended the evening courses in Final Accounting and Auditing, and he must have passed the course examination held at the close of those courses.
5. He must make written application to the Secretary of the Society of Chartered Accountants of the Province of Quebec on the form required by the Society.
6. He must not be less than 21 years of age at the date of the Final Examination.

THE CORPORATION OF PUBLIC ACCOUNTANTS

The Corporation of Public Accountants of the Province of Quebec holds annually its Final Examinations in Accounting and Auditing. This examination consists of six papers, and is generally held late in November or early in December. The Board of Examiners consists of five members, two appointed by the University and three by the Corporation. Application to sit for this examination must be made to the Secretary of the Corporation after the courses listed on page — have been taken successfully, and the other necessary requiremnts fulfilled.

A Bachelor of Commerce of McGill University is given exemption from all of the evening courses except the Final Accounting and Auditing Courses, and his apprenticeship requirements are reduced. The requirements which he must fulfill before presenting himself for the Final examination are as follows:—

(a) As part of his undergraduate work he must have taken the following courses:

Four courses in the Theory and Practice of Accounts.
Business Organization and Scientific Management.
Commercial Law (with a grade of 55% or more).
Elements of Economics.
Mathematics 15 and 17.

(b) He must have served for a term of at least two years before the Final Examination as clerk in the office of a member of the Corporation or of any other practising public accountant recognized as such by the Council of the Corporation, or he must have practised continuously as a public accountant under his own name for a period of at least three years immediately before the Final Examination. He must obtain evidence to prove to the satisfaction of the Corporation that he has done one or other of the above.

(c) He must have attended the evening courses in Final Accounting and Auditing.

(d) He must obtain from the University and file with the Secretary of the Corporation a certificate from the University showing that he has complied with (a) and (c) above.

(e) He must have made written application to sit for the Final Examination to the Secretary of the Corporation on the form required by the Corporation.

(f) He must be 21 years of age at the date of the Final Examination.

COST AND MANAGEMENT INSTITUTE

The Cost and Management has two sets of qualifying examinations for its degree.

PRELIMINARY EXAMINATION:

(a) Booking.

(b) Accounting.

(c) Fundamentals of Cost Accounting.

FINAL EXAMINATION:

(a) Industrial Organization and Management.

(b) Industrial Legislation.

(c) Advanced Cost Accounting.

(d) Cost Accounting Thesis.

The courses in Elements of Accounting and Intermediate Accounting and Auditing, Parts I and II, (Pages 321, 322) cover the ground necessary for the Bookkeeping and Final Examinations. Special courses in Fundamentals of Cost Accounting, Industrial Management and Advanced Cost Accounting, (Pages 324, 325) have been arranged by the University in co-operation with the Institute.

Particulars may be obtained from Prof. D. R. Patton, Chairman of the Educational Committee of the Institute.

OTHER ASSOCIATIONS

The course "Duties of Secretaries of Joint Stock Companies" has been arranged in co-operation with the Chartered Institute of Secretaries. Honorary Secretary, Gordon Small, 460 St. Francois Xavier St., Montreal.

The General Accountants Association provides for two sets of examinations, (a) Intermediate and (b) Final, leading to its diploma. Secretary, John Rhodes, 4816 Dornal Ave., Montreal. Tel. Ex. 1919.

Full information in respect of these organizations and their educational programmes may be obtained from their respective Secretaries.

FEES FOR THE EVENING COURSES

Students register and pay the required fee not later than the time of the second lecture of the course they are taking.

Elements of Accounting	$25.00
Accounting and Auditing (Intermediate) Part I	25.00
" " " " Part II	25.00
" " " (Final) Part I	40.00
" " " " Part II	40.00
Commercial Law	25.00
Mathematics (Intermediate)	20.00
" (Final)	20.00
Economics	15.00
Fundamentals of Cost Accounting	20.00
Advanced Cost Accounting	20.00
Industrial Management	20.00
Industrial Law	20.00
Duties of Secretaries of Joint Stock Companies	20.00

An extra charge payable with the fee, will be made in each course according to the amount of mimeographed material supplied to the students. Details will be available at the time of registration. The charge will not be more than two dollars ($2.00) in any course.

EXAMINATIONS

Students who reside outside of Montreal and district, and who wish to take the examinations, but who are not qualified by attendance at the course, pay a special examination fee, equivalent to about half the regular fee for the course, viz:—

Elements of Accounting	$10.00
Accounting and Auditing (Intermediate) Parts I or II	10.00
" " " (Pre-Final) Parts I or II	10.00
Commercial Law	10.00
Mathematics (Intermediate)	10.00
" (Final)	10.00
Economics	10.00
Final Accounting and Auditing Examination Fee	25.00

Fees for Re-examination

Elements of Accounting	$ 5.00
Intermediate Accounting: Part I	5.00
" " Part II	5.00
" Auditing	5.00
Pre-Final Examination Accounting and Auditing, Part I	10.00
Pre-Final Examination Accounting and Auditing, Part II	10.00
Commercial Law	5.00
Mathematics (Intermediate)	5.00
Mathematics (Final)	5.00
Economics (Final)	5.00

Evaluation and Registration of Certificates

Evaluation and registration of certificate exempting from the whole or part of the McGill Junior Matriculation Certificate.	$2.00

McGILL UNIVERSITY

MONTREAL



FACULTY OF ENGINEERING

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McGILL UNIVERSITY

FACULTY OF ENGINEERING

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.
Dean of the Faculty of Engineering....John J. O'Neill, M.Sc., Ph.D. (Yale), F.R.S.C.
Director of the School of Architecture..John Bland, B.Arch., A.R.I.B.A., A.M.T.P.I.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.
University Librarian.....Gerhard R. Lomer, M.A., Ph.D., F.L.A.
Superintendent of Buildings.....P. W. MacFarlane.
Secretary of the Faculty.....R. DeL. French, B.Sc., C.E.

STANDING COMMITTEES OF THE FACULTY

ADMISSION TO ADVANCED STANDING FROM OTHER UNIVERSITIES

Professors Roberts (*Chairman*), MacLean and Jamieson

EXAMINATIONS AND TIME TABLES

Professors Wood (*Chairman*), Coote, Holden, Pall and Bland.

REGISTRATION, STANDING, AND PROMOTION

Professors MacEwan (*Chairman*), MacLean, Dodd, Phillips, Nicholls, Roberts and Wallace.

SCHOLARSHIPS, BURSARIES AND LOANS

Professors MacLean (*Chairman*), Bland, Christie, Dodd, Kelly, Keys, MacEwan, Phillips and Roberts.

EMPLOYMENT

Professors French (*Chairman*), Christie and Roberts

ADVISORY COMMITTEE ON THE SCHOOL OF ARCHITECTURE

Professor John Bland (*Chairman*), Messrs. E. I. Barott, H. L. Fetherstonhaugh, J. C. McDougall, J. C. Merrett and J. J. Perrault

A complete list of the teaching staff of the University, including the Faculty of Engineering, is printed as a separate announcement which may be obtained from the Registrar's Office.

FACULTY OF ENGINEERING

ENTRANCE REQUIREMENTS

Candidates may qualify for admission to the Faculty of Engineering, including the School of Architecture, either by completing the first B.Sc. year of the Faculty of Arts and Science, including the pre-engineering course in Mathematics, or by passing the Senior School Certificate Examination in the following subjects:

(a) *Compulsory:*—
English, Mathematics (three papers: Algebra, Trigonometry and Co-ordinate Geometry), Physics, Chemistry.

(b) *Elective:*—
Any one of the following:—History, Biology, French, German, Greek, Latin, Spanish.

The pass-mark in each Senior School Certificate paper is 50%. The examinations are held in June and in September. Full details are given in the School Certificate Announcement, which may be obtained from the Registrar's Office.

For a list of other certificates recognized, see below.

Students entering by means of first year B.Sc. are strongly recommended to take Intermediate Mathematics in their Junior School Certificate Examination. Failure to do so will not disqualify a student, but will entail additional work in this subject in the pre-engineering year.

ADMISSION REGULATIONS FOR STUDENTS ENTERING FROM THE SCIENCE DIVISION

1. A student who has passed in May or September all the subjects of the First Year of the B.Sc. course of the Faculty of Arts and Science may enter the Faculty of Engineering without conditions.

2. A student who has failed in any of the papers in Mathematics, Physics, or Chemistry (including Chemistry 1L) will not be admitted.

3. A student who has failed in one subject only (other than Mathematics, Physics or Chemistry) may be admitted with a condition in this subject if, and only if, his average standing in Mathematics, Physics, and Chemistry is at least Second Class.

4. A student who has failed in more than one subject will not be admitted.

5. Students who after the May examinations are qualified to enter under Section 3 are strongly advised to try to remove their condition by writing the September supplemental before entering the Faculty of Engineering. Failure to remove a pre-engineering condition usually proves a serious handicap, and special regulations governing graduation apply to students who fail to remove such a condition after three attempts, including the initial failure.

APPLICATION FOR ADMISSION

Students desiring to enter the Faculty of Engineering must make applications on forms which may be obtained from the Registrar's Office. Completed forms must reach the Registrar before September 10th.

CERTIFICATES RECOGNIZED

Candidates will be admitted into the faculty only if they show an adequate preparation and ability in mathematics.

With this condition, the following certificates will be accepted in lieu of the Senior School Certificate Examination, in so far as they meet the requirements:—Upper School Certificates of the Province of Ontario; Grade XII Certificates of the Provinces of Quebec, Nova Scotia, Manitoba, Alberta and Saskatchewan; the Third Year Certificates of the Prince of Wales College, P.E.I.; the Senior Matriculation Certificates of British Columbia and Newfoundland; and the Higher Certificates of the Oxford and Cambridge Schools Examination Board, the Oxford and Cambridge Local Examination Boards, the English Northern Universities Examinations Board, the Central Welsh Board, and of Durham, Bristol, and London Universities.

HEALTH SERVICE

Information concerning the University Health Service will be found in the General Information Pamphlet enclosed with this Announcement.

Those engaged in certain branches of mining and metallurgical work are subject by Provincial authorities and mining companies to regulations regarding physical fitness, with particular reference to chest conditions and sight. Students registering for courses in Mining or in Metallurgical Engineering are therefore required to undergo a special medical examination to determine their fitness. Convenient arrangements are made through the University Medical Officer for such examinations. While assisting students to determine their degree of fitness, the University assumes no responsibility for decisions made by those administering the regulations referred to above.

REGISTRATION, ATTENDANCE AND DISCIPLINE

REGISTRATION

All students entering the Faculty of Engineering must register in the Macdonald Engineering Building on Friday, September 29th, between the hours of 9.30 a.m. to 12.30 p.m., and 2.00 p.m. to 5.00 p.m., in accordance with instructions given below:—

(1) Students entering the Faculty of Engineering for the first time must register in Room 74.

(2) All other students must register in Room 75.

Students registering after September 29th but not later than October 6th are required to pay a late registration fee of $5, which fee is increased to $10 for students registering after October 6th. This fee is not refunded except by authorization of the Faculty. After October 15th, no student is admitted except by special permission of the Faculty.

ATTENDANCE

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one subject. The Faculty of Engineering has the authority of Senate to modify this regulation except as regards students of the First Year, but only in so far as attendance at lectures is concerned. The Faculty regulations governing attendance are bulletined at the opening of each session. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course in which attendance is compulsory are not permitted to sit for the regular examinations in that course, and those whose unexcused absences in such courses have exceeded one-fourth of the total number of lectures must repeat the work in that course.

Excuses on the ground of illness, urgent affairs or domestic affliction are dealt with by the Dean only.

An excuse for absence due to illness is granted only when the application is accompanied by a certificate from the attending physician. Applications for all excuses must be filed with the Dean within three days after the period for which the excuse is requested.

Excuses granted must be shown to all professors concerned as promptly as possible.

2. An attendance record is kept by each instructor, which is submitted to the Faculty when required.

3. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. In the case last mentioned the student may, at the discretion of the Professor, be required to leave the

room. Persistence in any of the above offences against discipline after admonition by the Professor, is reported to the Dean. The Dean may, at his discretion, reprimand the student, or refer the matter to the Faculty at its next meeting, and may in the interval suspend the student from classes.

4. Lectures commence at five minutes after the hour. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor. If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of these exercises are marked absent.

DISCIPLINE

The University Regulations concerning discipline are administered by the several Faculties, subject, when necessary, to revision or confirmation by Senate.

FEES

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

Special Fees in Engineering.

Summer Schools.—Students who are eligible to attend Summer Schools in May or September as part of their regular course pay $10 as a caution money deposit. Students taking Summer Schools as an extra will pay $25 plus a caution money deposit of $10.

Dates for Payment.

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. to 1 p.m. or 2.30 to 4.30 p.m. (Saturday 9 a.m. to noon), on the following dates:— Friday, September 29th

to

Thursday, October 5th, inclusive

or if desired fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or satisfactory arrangements are made with the Bursar.

COLLEGES AFFILIATED WITH THE FACULTY OF ENGINEERING

The conditions on which students may enter from certain colleges and universities are stated below. Such students, and others seeking similar advanced standing, should make application to the Dean of the Faculty, preferably not later than the end of July. They should state the course they wish to enter and submit an official transcript of their academic record. All such students are subject to the regulations of the Faculty regarding experience in practical work and physical examination (see pages 431, 409). Due allowance is made for courses in shopwork forming part of the curricula in the colleges in which they have previously studied.

ACADIA, ALBERTA, MOUNT ALLISON AND ST. FRANCIS XAVIER UNIVERSITIES are affiliated with McGill University to the extent that students who have completed the two-year or three-year courses in engineering given by these universities are admitted to the Third Year in any of the engineering courses in the Faculty of Engineering, except Chemical or Metallurgical and Mining Engineering, for which special arrangements are at present necessary.

Students from these universities entering the Third Year must take the summer school pertaining to their courses in May, or the special school in September, which will open in 1944 on September 1st in Mechanical Engineering, and on September 18th in Civil Engineering and Mining Engineering.

ROYAL MILITARY COLLEGE.—Undergraduate instruction at the Royal Military College has been suspended, owing to war-time exigencies.

UNIVERSITY OF CAMBRIDGE.—Arrangements have been made whereby graduates and students of the Mechanical Science course in the University of Cambridge are admitted to advanced standing in the Faculty of Engineering under definite regulations, particulars of which can be obtained from the Dean of the Faculty.

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS, AND LOAN FUNDS

Details of Scholarships, Bursaries, and Loan Funds will be found in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's office.

ADVANCED STANDING FOR GRADUATES IN ARTS AND SCIENCE

Graduates in Arts and Science desiring to proceed to the degree of B.Arch. or B.Eng., should apply to the Dean, Faculty of Engineering, for information regarding the regulations governing such procedure.

DEGREES, EXAMINATIONS, AND SOCIETIES

DEGREES

Degrees conferred by the University upon such undergraduates of the Faculty as fulfill the conditions and pass the examinations hereinafter, stated are:—"Bachelor of Architecture" (B.Arch.), and "Bachelor of Engineering" (B.Eng.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Engineering degree in one course may graduate in another course by attending one or more subsequent sessions and passing the prescribed additional examinations.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates of the Faculty of Engineering the following may be specially mentioned:—

(1) By a resolution of the Institution of Civil Engineers of Great Britain, the holders of the degree of B.Eng. who are desirous of becoming Associate Members of the Institution, may be exempted from Parts A and B of the examinations prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyor's certificate shortened from three years to one.

(3) Holders of the degree of B.Eng. are admitted to practice in Quebec, upon graduation, provided they register with the Corporation of Professional Engineers of Quebec upon entering the Faculty. Students entering the Faculty should therefore obtain the necessary application forms from the Dean's office, complete them and return them to that office.

(4) The School of Architecture is recognized by the Royal Institute of British Architects, and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B.Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of Professional Practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

(5) The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership, and thereby to practice in the Province, on passing an examination in Professional Practice and after spending one year in the office of a member of the Association, or upon completion of service in the Army Engineer Corps. This office experience may be gained during the summer vacations.

EXAMINATIONS

(See also Regulations concerning Prerequisite Subjects, Standing and Promotion.)

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held at the option of the Professor or at the request of the Faculty.

2. Students who have failed in one or more subjects of the curriculum, except in cases where they are not permitted to register in a subsequent session or as noted in paragraph 3, are required to attempt to make good their standing prior to their registration by writing:—

(*a*) the regular supplemental examinations held immediately before the opening of the session, or

(*b*) the final examinations in a subsequent session.

3. Students who have failed at the completion of a session in non-prerequisite subjects only, totalling not more than 150 marks, may, if given permission by the Faculty, register in a subsequent session as conditioned students. (See paragraph 4, page 459).

4. The pass standard in examinations in which the candidate has already failed twice is 60 percent. A conditioned student, unless excused by the Faculty, who does not present himself for a sessional or supplemental examination before applying for registration, will be regarded as having failed in that examination and will be required to make 60 percent at his next attempt.

5. Special supplemental examinations are not held. Deferred supplemental examinations are given only under exceptional circumstances and by authority of the Faculty.

6. Failures in drafting and laboratory subjects may under certain conditions be made good by attending special classes during the late afternoons of the first two months of the following session. No student is permitted to attend these schools unless he has made at least 30 percent in the subject of the school. These classes must be completed and the results reported to the Faculty on or before December 1st.

7. Classes:

Class I	80–100 percent.
Class II	65– 79 percent.
Class III	50– 64 percent.

ENGINEERING SOCIETIES

1. Upon entrance into the Faculty, all undergraduate students automatically become members of the Engineering Undergraduates Society.

2. The students also support the Society of the Phi Epsilon Alpha. The members of this society are selected from graduates and undergraduates in engineering, and its object is to encourage high standards of character and scholarship.

3. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, for which a fee of $3 is required. They are then entitled to the Journal of the Institute, to the use of the Institute's building, 2050 Mansfield Street, and to attend the weekly meetings.

Students are invited to compete for the prizes which are offered by the Institute.

4. Students in Mining Engineering and in Metallurgical Engineering are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body, is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute free, and are entitled to attend meetings and to compete for prizes offered.

5. Students in Architecture are recommended to become student members of the Province of Quebec Association of Architects, for which a fee of $1.00 is required. They are then entitled to use the library of the Association, 620 Cathcart Street, and to receive the Journal of the Royal Architectural Institute of Canada.

COURSES OF INSTRUCTION

Instruction in this Faculty is designed to afford thorough training of a practical as well as theoretical nature, in the following branches:—

I—Architecture
II—Chemical Engineering
III—Civil Engineering
IV—Electrical Engineering
V—Mechanical Engineering
VI—Metallurgical Engineering
VII—Mining Engineering

A note concerning graduate courses follows the list of undergraduate courses in each department. Details are given in the Announcement of the Faculty of Graduate Studies and Research. A course is also offered in Engineering Physics, see page 456.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by the Faculty, and is in no case binding beyond the session covered by this calendar announcement.

The course for a degree in any branch of Engineering is one of four years, and for a degree in Architecture the course is a five-year one.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to the Faculty of having had six months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. The conditions regarding practical work in the School of Architecture are set forth under the heading of Summer Work, Courses 35, 36, 37, 38, on page 437. Forms, obtainable from the Dean's Office, must be signed by the employer and returned on or before 5 p.m. Friday, October 20th, 1944.

The work prescribed for the first two years is the same in all Engineering courses, except in Architecture, Chemical Engineering, Metallurgical Engineering and Mining Engineering.

The first two years of the Engineering courses are devoted to mathematics, mechanics, physics, chemistry and drawing, as it is necessary that students in these courses should master the general principles underlying scientific work before commencing professional subjects.

In certain courses, students are required to attend Summer School, following the completion of the work of the session in the First, Second, and Third Years; for details, see page 430.

The regular work of the session 1944-45 will begin on October 2nd, 1944, and end on May 30th, 1945.

ENGINEERING COURSES

The subjects of instruction in the First Year of the Engineering Courses, and the number of hours per week devoted to each, are as follows:

FIRST YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elementary Physical Chemistry and Laboratory	51	2	2	1	1
Descriptive Geometry	341	2	2	4	4
Mechanical Drawing	340	..	..	3	3
Engineering Problems	80	..	..	3	3
History of Science	135	1	1	..	..
Spherical Trigonometry and Mensuration	191	2	..	..	..
Algebra	192	2	2	..	..
Calculus	193	..	4	..	..
Mechanics	194	2	2	..	..
Analytical Geometry	195	2	..	..	..
Physics and Laboratory	311-312	3	3	2	2
Surveying	345	..	2	..	..
*Surveying Field Work	347	..	..	..	..
Total hours		16	18	13	13

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations. (See pages 430 and 457).

Any undergraduate student of the First Year, who at the close of the first term had failed to obtain an average of 33 per cent in chemistry, mechanics, analytical geometry, trigonometry, algebra, physics, and descriptive geometry, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

See Regulations governing "Promotion", pages 459, 460.

The subjects of instruction in the Second Year of the Engineering Courses (III to VII), except in Architecture, Chemical Engineering, Metallurgical Engineering and Mining Engineering, and the number of hours per week devoted to each are as follows:—

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Mapping	348	..	..	6	..
Materials of Engineering	81	1	1	..	..
Calculus	198	2	2	..	..
Mechanical Drawing	344	..	..	3	3
Mechanics	83	2	2	2	2
Mechanics of Machines	218	..	1	..	3
General Geology	141	2	2	3	2
Physics and Laboratory	315, 316	2	2	3	3
Surveying	346	2	..	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		12	12	17	15

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 25th) (see pages 430 and 457). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 431).

See Regulations governing "Promotion", pages 459, 460.

1. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years and aims to provide a basic training in the building sciences with particular reference to planning and the structural and mechanical design of buildings. The first year is the regular first year of the Engineering Faculty and is devoted to preparatory mathematics and drawing. During the second, third and fourth years, the subjects of building construction, structural and mechanical design, history of Western art and architecture, economics, elements of architecture and planning are taken. Courses in sociology, acoustics, plumbing and electricity are given to the

combined third and fourth years in alternate years. The work of the fifth year is largely planning and professional practice and the instructors in this year are practicing architects.

FIRST YEAR

As in other Engineering courses (see page 416) with special summer work for students entering the second year (see page 431).

Students may take Architectural Drawing and Colour (8) in place of Technical Drawing and Sketching (341) and Mechanical Drawing (340), and in place of Elementary Physical Chemistry and Laboratory (51) students may take one of the following courses in the Faculty of Arts and Science, History 1A or Economics 1 or Sociology 1 if the time table permits.

SECOND YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Architectural Drawing and Colour	9	1	1	3	3
Architectural Essay	31	..	..	..	..
Building Construction I	18	1	1	3	3
Calculus	198	2	2	..	..
Engineering Reports	136	1	1	..	..
Freehand Drawing	27	..	..	3	3
General Geology	141	2	2	3	2
History of Architecture	14	2	2	..	..
History of Art	5	1	1	..	..
Mapping	348	..	..	3	3
Materials of Engineering	81	1	1	..	..
Mechanics	83	2	2	2	2
Surveying	346	2	..	..	..
*Surveying Fieldwork	347	..	..	..	..
Summer Work	35	..	..	..	..
Total hours		15	13	17	16

*Surveying Fieldwork is done in the four weeks immediately following the close of the First Year Examinations in April. In the case of students entering from other universities this work should be done before entering the Second Year in Summer Schools, as shown on page 431.

See Regulations governing "Promotion", pages 459, 460.

THIRD YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Aesthetics	6	1	1	..	..
Architectural Essay	32	..	..	..	..
Building Construction II	19	1	1	3	..
Design A	1	1	1	6	3
Economics	171	..	2	..	..
Elements of Structural Design	90	..	1	..	3
Foundations	89	1	1	..	3
Freehand Drawing	28	..	..	3	3
*History of Architecture	15	2	2	..	..
Mechanical Engineering and Lab.	226, 228	2	..	3	..
Planning	7	2	2	..	..
*Social Observation	23	3	3	..	..
Strength of Materials and Lab.	87, 88	2	2	..	3
Summer Work and Sketching School	36, 26	..	..	..	..
Total hours		15	16	15	15

*Given to the combined Third and Fourth Years in alternate years.

FOURTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
*Acoustics	20	2	..	..	..
Architectural Essay	33	..	..	..	..
Design B	2	..	..	9	9
Engineering Economics	172	2	..	..	..
*Electricity	20	..	2	..	..
Freehand Drawing	29	..	..	3	3
Heating and Ventilating	247	1	1	..	..
*History of Architecture	16	2	2	..	..
*Plumbing	22	..	2	..	..
Sanitary Science	82	2	..	..	..
Strength of Materials	95	1	2	3	..
Theory of Structures	94	1	2	3	6
Summer Work and Design Schools	37, 1A	..	..	..	..
Total hours		11	11	18	18

*Given to the combined Third and Fourth Years in alternate years.

FIFTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Architectural Essay	34	..	..	..	..
Design C	3	..	..	24	24
History of Architecture	17	2	2	..	..
Engineering Law	175	1	1	..	..
Modelling	30	..	..	3	3
Professional Practice	24	..	2	..	..
Specifications	25	2	..	..	..
Summer Work and Design School	38, 2A	..	..	..	..
Total hours		5	5	27	27

II. CHEMICAL ENGINEERING

The aim of this Course is to provide a broad fundamental training, which, when supplemented by practical experience, will make the engineer competent to design and operate industrial plants and to understand the processes.

Part of the time in the Second Year is devoted to Chemistry, in addition to general Engineering subjects. In the Third Year, time is divided between Chemistry and Engineering, and Chemical Engineering topics are introduced. The Fourth Year is devoted mostly to Chemistry and Chemical Engineering, including a course in unit operations.

Students must attend two Summer Schools, one in Elementary Quantitative Analysis at the end of the Second Year, and the other in Advanced Quantitative Analysis at the end of the Third Year.

FIRST YEAR

As in other Engineering Departments, except that students do not take the Summer School in Surveying Field Work.

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Calculus	198	2	2	..	..
Materials of Engineering	81	1	1	..	..
Mechanics	83	2	2	2	2
Physics and Laboratory	315, 316	2	2	3	3
Elem. Organic Chem. and Laboratory	56, 57	3	3	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Inorganic Quantitative Analysis and Laboratory	54	..	2	..	9
*Inorganic Quantitative Analysis Laboratory	55	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		13	13	14	19

*Summer School extends over a period of four weeks at the end of the second year course.

See Regulations governing "Promotion", pages 459, 460.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Chemistry and Technology of High Polymers (optional)	62	1	1	..	..
Metallurgy of Iron and Steel	261	1	1	..	..
Mechanical Eng. and Lab.	226, 228	2	2	3	3
Applied Thermodynamics	73	2	2	..	..
Engineering Reports (optional)	137	1	1	..	..
Mineralogy	142A	2	2	..	..
Determinative Mineralogy	143A	..	..	3	..
Strength of Materials and Lab.	87, 88	2	2	..	3
Advanced Organic Chem. and Lab.	65	2	2	6	6
Chemical Thermodynamics	76	2	2	..	..
Physical Chemistry	66	1	1	..	..
Physical Chemistry Laboratory	66A	..	..	3	3
Elementary Chemical Engineering	63	2	2	..	..
*Advanced Quantitative Analysis and Laboratory	61	..	..	..	..
Summer Essay	133	..	..	..	..
Total hours		16 to 18	18 to 20	15	15

*Summer School extends over a period of four weeks at the end of the third year course.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Advanced Inorganic Chemistry	72	2	2	..	..
Electrochemistry	70	2	..	..	..
Electrometallurgy (optional)	275	..	2	..	..
Colloid Chemistry	75	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Elem. of Electrical Eng. and Lab	111, 112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
History of Chemistry (optional)	74	1	1	..	..
Inorganic Chemical Technology	68	2	..	..	..
Organic Chemical Technology	69	..	2	..	..
Physical and Colloid Chemistry Laboratory	66B	..	..	6	6
Advanced Physical Chemistry	67	2	2	..	..
Chemical Engineering	77	5	5	..	..
Chemical Engineering Laboratory	78	..	..	6	6
Summer Essay	134	..	..	..	..
Total hours		19 to 22	15 to 19	15	15

III. CIVIL ENGINEERING

The courses of study are designed to emphasize the fundamental principles of mechanics, strength of materials, design of structures, and hydraulics, at the same time affording an opportunity of applying these principles to practical problems ranging widely over the field of civil engineering. A sound foundation is laid for future specialization. The outlook of the student is broadened by courses in Mechanical and in Electrical Engineering. In the designing courses special attention is given to the interpretation and critical discussion of specifications and to the economic principles involved. Students are recommended to obtain practical experience during the summer vacations, and are especially recommended to spend at least one vacation in a drafting office.

First and Second Years

As in other Engineering Courses (see pages 416 and 417), with additional Summer School for students entering Third Year (see page 430).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Foundations	89	1	1	..	3
Engineering Reports (optional)	137	1	1	..	..
Hydraulics and Laboratory	97, 98	2	..	3	..
*Map Projections (alternate)	351	..	..	3	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Mechanics	86	1	1	..	..
Railway and Highway Engineering	92	2	1	6	3
*Sanitary Science (alternate)	82	1	..	..	..
Strength of Materials and Lab.	87, 88	2	2	..	3
Elementary Structural Design	90	..	1	..	3
Surveying	353	2	2	..	..
Surveying Field Work	354	..	..	..	..
Summer Essay	133	..	..	..	..
Total hours		12 or 14	12 or 13	12 or 15	15

*Map Projections (351) is alternative with Sanitary Science (82).

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elements of Elec. Eng. and Lab.	111, 112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Geodesy and Laboratory	359, 360	2	..	3	..
†Geodetic Field Work	361	..	..	..	..
Strength of Materials	95	1	2	3	..
Theory of Structures	94	1	2	3	6
Bridge Design	96	2	2	6	6
Hydraulic Machines	99	..	2	..	..
Municipal Engineering	101	2	2	..	3
Waste Disposal	103	1	..	..	..
Summer Essay	134	..	..	..	..
Total hours		14 or 16	13 or 14	18	18

†See page 430.

IV. ELECTRICAL ENGINEERING

The Third Year of the Electrical Engineering course provides the student with a broad engineering training. Courses in mechanical engineering, thermodynamics, and strength of materials occupy a large place in the curriculum, although the greatest emphasis in placed on the study of the principles of Electrical Engineering.

The course in Electrical Engineering theory includes a study of electro-magnetism and of the electric circuit, followed by an analysis of the theory and characteristics of direct current machinery. A study is made of alternating current flow in single-phase and polyphase circuits, and a short introduction to the theory of thermionic tubes and their application is given. This training is applied in the laboratory and in the solution of problems. Courses in differential equations and in molecular physics prepare the student for the electrical circuit theory and electrical communication courses of the Fourth Year.

The Fourth Year is devoted almost entirely to electrical studies in the two main fields of Power Engineering and Communication Engineering.

Courses in the power engineering field cover the generation, transmission and distribution of electric power; direct and alternating current phenomena; electrical machinery; electric lighting; electric traction systems, hydroelectric power development; electrical measurement and electro-chemistry.

Courses in communication engineering cover the theory and applications of thermionic tubes, transmission theory and radio engineering. These are supplemented by laboratory work in audio- and radio-frequency measurements and by design, construction and testing of communication apparatus.

When a student enters the fourth year he may elect to specialize in communication engineering, in which case he will omit courses (97) and (98) Hydraulics and Laboratory, in the first term and course (123) Applications of Electricity, in the second term and take in their place extra work in communication engineering. Extra laboratory instruction and a course in radio design will replace six hours per week of time usually included in courses (118) Electrical Engineering Laboratory and (122) Electrical Design and Problems.

First and Second Years

As in other Engineering Courses. (See pages 416 and 417).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Differential Equations	201	2	2	..	..
Economics	171	..	2	..	..
Electrical Engineering	113	4	4	..	..
Electrical Eng. Laboratory	114	..	..	12	12
Engineering Reports (optional)	137	1	1	..	..
Machine Design	225	2	2	..	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Mechanics	86	1	1	..	..
Thermodynamics	229	2	2	..	..
Strength of Materials and Lab.	87, 88	2	2	..	3
Physics	318	2	..	..	..
Summer Essay	133	..	..	..	..
Total hours		17 or 18	17 or 18	15	18

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Electrical Design and Problems	122	1	1	3	6P-3C
Electrical Engineering	117	4	4	..	..
Electrical Measurements and Lab.	134	2	..	2	3
Electrical Engineering Laboratory	118	..	..	7	9P-6C
Thermionic Tube Theory	125	2	..	3	..
Communication Eng. (Wire)	126	..	2	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Applications of Electricity	123	..	3P	..	..
Electric Light and Power Dist.	120	2	..	..	..
Hydraulics and Laboratory	97, 98	2P	..	3P	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Summer Essay	134	..	..	..	..
Communication Eng. (Radio)	127	2C	3C	3C	6C
And One of					
Hydraulic Machines	99	..	2	..	..
Machine Design	243	..	2	..	..
Electrometallurgy	275	..	2	..	..
Thermionic Tube Applications	128	..	2	..	..
Time hrs. per week	P	16 or 18	11 or 14	18	18
	C	16 or 18	11 or 14	18	18

P—Power Option.
C—Communications Option.

V. MECHANICAL ENGINEERING

In the fourth year there are three options: 1st, Industrial Engineering; 2nd, Thermodynamics; and 3rd, Mechanics of Machines. In preparation for one of these courses, undergraduates entering the third year elect to take either Accounting or Mechanics of Machines; Accounting being prerequisite to Industrial Engineering, and Mechanics of Machines prerequisite to the other two. If postgraduate work in aeronautics is contemplated, in addition to the first option (Mechanics of Machines), Calculus is taken in the Third Year and Strength of Materials in the Fourth Year, if the timetable will permit.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:—

(a) The engineering of production, including industrial engineering; (b) steam engineering; (c) internal combustion engines; (d) power plant engineering; (e) heating and ventilation; (f) aeronautics and aerodynamics.

Instruction is given during the Third and Fourth Years in mechanical engineering applied to power installations and prime movers. This work is supplementary to thermodynamics, mechanics of machines and machine design, and leads to power plant design, industrial plant design and works organization.

Workshop practice instruction is given in the Third and Fourth Years to prepare for that practical experience which every mechanical engineer must obtain for himself.

The course in thermodynamics deals with the theory of heat engines, including graphical and experimental work.

Arrangements are made for occasional visits to power plants and factories of importance.

First and Second Years

As in other Engineering Courses (see pages 416 and 417), with additional Summer School for students entering Third Year. (See page 430).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Elements of Elect. Eng. and Lab.	111, 112	2	2	3	3
Engineering Reports (optional)	137	1	1	..	..
Industrial Engineering	237	2	..	..	..
Machine Design	25	2	2	..	..
Mechanical Drawing	231	..	..	3	3
Mechanical Eng. and Laboratory	227, 228	3	3	3	3
Mechanics	86	1	1	..	..
Physical Metallurgy	266	1	..	2	..
Shopwork	236	..	..	3	3
Strength of Materials and Lab	87, 88	2	2	..	3
Elements of Structural Design	90	..	1	..	3
Thermodynamics	229	2	2	..	..
Summer School	233	..	..	..	..
Summer Essay	133	..	..	..	..
Accounting	238	1	1	2	2
or					
Mechanics of Machines	224	2	2	1	1
**Differential Equations (optional)	201	2	2	..	..
Total hours	A	16 or 17	16 or 17	16	20
	M	17 or 20	17 or 20	15	19

A—Accounting option.
M—Mechanics of Machines option.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Designing	241	..	..	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Experimental Engineering	257	1	1	..	..
Heat. and Vent. of Buildings	247	1	1	..	..
Hydraulics and Laboratory	97, 98	2	..	3	..
Hydraulic Machines	99	..	2	..	..
Machine Design	242	2	2	..	..
Power and Plant Design	244	1	1	3	3
Shopwork	252	..	..	3	3
Summer Essay	134	..	..	..	..
and					
Industrial Administration	254	..	1	..	3
Industrial Engineering	253	2	2	3	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Laboratory	249A	..	..	6	6
or					
Thermodynamics	251	2	2	..	..
Industrial Administration	254	..	1	..	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Laboratory	249	..	..	9	9
or					
Mech. Eng. Laboratory	249	..	..	9	9
*Mechanics of Machines	240	2	2	1	1
Thermodynamics	251	2	2	..	..
**Strength of Materials (optional)	95A	..	2	..	..
Total hours		14 or 16	12 or 14	21 or 22	19 or 21

*Prerequisite Mechanics of Machines 224.

**Students intending to specialize later in aerodynamics take optional courses in. Differential Equations (201) and Strength of Materials (95A).

VI. METALLURGICAL ENGINEERING

The course of instruction provides training in the chemical, physical and engineering subjects that form a basis for metallurgical engineering. In the later years, the various branches of theoretical and practical metallurgy are studied, together with the allied subjects of geology, mineralogy, assaying, mineral dressing and mining engineering.

The course is designed for students who expect to be engaged in the smelting or refining of metals, the production of iron or steel, the melting and casting of metals and alloys, or in engineering work in which the physical properties and heat-treatment of metals and alloys are of fundamental importance.

In the Second Year instruction is given in calculus, mechanics, physics, geology, mineralogy, surveying, materials of engineering, inorganic qualitative analysis, engineering problems, mapping and mechanical drawing.

In the Third Year instruction is given in economics, chemistry, assaying, mining, mineral-dressing, metallurgy, and mechanical and structural engineering.

A Metallurgical Field School is held after the April examinations of the Third Year. This school visits metallurgical plants and studies the design and operation of each.

Students are expected to work in a metallurgical plant during the summer before entering the Fourth Year, and must have had experience in metallurgical works before graduation. (See page 431).

In the Fourth Year instruction is given in chemistry, engineering law, economics, hydraulics, metallurgy, electrometallurgy, metallography, electrical engineering, metallurgical designing and mineral dressing.

Laboratory accommodation is provided for graduate students who wish to do advanced work in metallurgy for the M.Sc. or the M.Eng. degree.

Please refer to page 409 for regulations regarding physical examination.

First Year

As in other Engineering Courses. (See page 416).

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	80A	..	1	..	2
Engineering Reports	136	1	1	..	..
Mapping	349	..	..	..	3
Materials of Engineering	81	1	1	..	..
Calculus	198	2	2	..	..
Mechanical Drawing	343	..	..	..	3
Mechanics	83	2	2	2	2
Physics and Laboratory	315, 316	2	2	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
General Geology	141	2	2	3	2
Mineralogy	142	2	2	..	..
Determinative Mineralogy	143	..	..	2	2
Surveying	346	2	..	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		16	13	16	17

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 25th) (see pages 430 and 458). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 431).

See Regulations governing "Promotion", pages 459, 460.

THIRD YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Chemical Thermodynamics	76	2	2	..	..
Physical Chemistry	66	1	1	..	..
Metallurgical Laboratory	262	..	..	..	3
Engineering Reports (optional)	137	1	1	..	..
Fire Assaying and Lab	263, 264	1	..	4	..
Inorg. Quant. Anal. and Lab	71	1	..	8	..
Mech. Eng. and Laboratory	226, 228	2	2	3	3
Metallurgical Calculations	265	..	..	2	2
Metallurgy of Iron and Steel	261	1	1	..	..
Mining Engineering	291	2	..	..	..
Mineral Dressing	292	2	2	..	..
Strength of Materials and Lab	87, 88	2	2	..	3
Elements of Structural Design	90	..	1	..	3
Electrical Engineering and Lab	111, 112	2	2	3	3
Summer Essay	133	..	..	..	..
Total hours		15 or 17	15 or 16	20	17

FOURTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Advanced Physical Chemistry	67	2	1	..	..
Advanced Metallurgy	272	2	2	..	..
Electrochemistry	70	2	..	..	..
Electrometallurgy	275	..	2	..	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
General Metallurgy	271	2	2	..	..
Hydraulics and Laboratory	100	1	..	1½	..
Inorganic Chem. Technology	68	2	..	..	..
Electrical Engineering and Lab	111, 112	2	2	3	3
Metallurgical Thesis	274	..	..	3	9
Metallurgical Colloquium	277	..	1	..	..
Metallurgical Problems and Design	278	..	2	3	3
Metallurgical Analysis	279	..	..	3	..
Metallography and Laboratory	280, 281	2	2	..	3
Mineral Dressing and Laboratory	300, 305	2	1	3	..
*Metallurgical Field School	268	..	..	..	..
Summer Essay	134	..	..	..	..
Total hours		20 or 22	16 or 17	16½	18

*Metallurgical Field School (268) is taken at the end of the Third Year. See page 453.

VII. MINING ENGINEERING

In the Second Year instruction is given in calculus, mechanics, physics, geology, mineralogy, surveying, materials of engineering, inorganic qualitative analysis, engineering problems, mapping and mechanical drawing.

The Third Year is largely devoted to applied mechanics, structural design, electrical engineering, mechanical engineering, surveying, petrography, applied geology and geophysics, but courses of special interest to Mining Engineers are introduced in mineral dressing, elementary mining and metallurgy.

In the Fourth Year instruction is given in mining, mineral dressing, economic geology and metallurgy, including nearly three full days per week in laboratories and drafting room. In the second term each student prepares a thesis on an experimental investigation, and works on problems in mine design.

A Field School in mining, mineral dressing and geology is held between the Third and Fourth Years, beginning immediately after the close of the April examinations. Students are taken on a trip to some important mining district where mines and plants are studied.

Facilities are available for graduate students who wish to do advanced work in mining or mineral dressing, and the Department possesses three Research Fellowships open to graduates who show ability. (See Scholarships Announcement.)

Please refer to page 409 for regulations regarding physical examination.

First and Second Years

First Year, same as other Engineering Courses (see page 416), and Second Year, same as course in Metallurgical Engineering (see page 427), with additional Summer Schools for students, entering Third Year (see page 430).

THIRD YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Engineering Reports (optional)	137	1	1	..	..
Electrical Engineering and Lab.	111, 112	2	2	3	3
Fire Assaying and Laboratory	263, 264	1	..	4	..
Geology, Practical and Field	147	2	..	3	..
Inorg. Quant. Anal. and Lab.	71	1	..	8	..
Mapping	350	..	..	..	2
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Metallurgy of Iron and Steel	261	1	1	..	..
Mineral Dressing	292	2	2	..	..
Mining Engineering	291	2	..	..	..
Petrography and Laboratory	146	..	2	..	3
Strength of Materials and Lab.	87, 88	2	2	..	3
Elements of Structural Design	90	..	1	..	3
Surveying	352	..	2	..	..
*Surveying Field Work	354	..	..	..	..
Summer Essay	133	..	..	..	..
Total hours		15 or 16	16 or 17	21	17

*See page 458.

FOURTH YEAR

SUBJECT	Subject No.	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Applied Geophysics	320	2	..	..	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Geology and Natural Resources of Canada	149	..	2	..	3
Hydraulics and Laboratory	100	1	..	1½	..
Industrial Administration (optional)	254	..	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Metallurgical Analysis	279	..	..	3	..
Metallurgical Calculations	265	..	..	2	2
Metallurgical Laboratory	271	..	..	..	3
Metallurgy, General	284	2	2	..	..
Mine Design	298	..	..	3	6
Mineral Dressing	300	2	1	..	..
Mineral Dress., Lab. and Thesis	307	..	..	3	7
Mining Colloquium	301	..	1	..	..
Mining Engineering	297	2	3	..	..
Mine Mapping	293	..	..	2	..
Ore Deposits	148	2	2	..	3
Mining Field School	294	..	..	..	..
Summer Essay	134	..	..	..	..
Total hours		14 or 16	12 or 13	14½	24

NOTE.—Surveying Field Work, between the Second and Third Years. See page 430. Mining Field School at end of Third Year. See page 452.

SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are held immediately after the April sessional examinations, and the work is set forth in detail under the subject numbers referred to.

See note under fees, page 411.

Except as noted, classes are expected to begin on or about April 25th and close about May 23rd.

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year (and Fifth Year Architecture)	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	457	† 26	437	1A, 2A	435
Chemical Engineering	...	...	55	438	61	438
Civil Engineering	347	457	354	458	361	458
Electrical Engineering	347	457	...	...	...	...
Mechanical Engineering	347	457	*233	448	...	...
Metallurgical Engineering	347	457	...	...	268	453
Mining Engineering	347	457	354	458	294	452

*This school will commence on September 1st, 1944, extend over a period of four weeks and be held with the Special Summer Schools. See pars. (a), (b) and (c) below.

†A Sketching School is taken by students entering the third, fourth and fifth years in Architecture. It will commence on September 11th, 1944, and extend over a period of two weeks.

Note—Special Summer Schools

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Engineering.

(a) Students entering the Second Year, except in Chemical Engineering, are required to attend a special Summer School in Surveying which opens on September 18th, 1944, preceding the work of the Session. Additional work may be required in the following year, if necessary, to cover the course. (See page 457.)

(b) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Drawing and Machine Shop Work extending over a period of four weeks, commencing September 1st.

(c) Students entering the Third Year in the courses in Civil and in Mining Engineering and the Fourth Year in Civil Engineering are required to attend a Special Summer School in Surveying which opens on September 18th, 1944, and in these courses further work in Surveying, to be specified by the Chairman of the Department, is required for a portion of the month of May following.

(d) Students entering the Second Year or any subsequent year in the School of Architecture must submit evidence satisfactory to the Director that they have done work equivalent to that of the regular scheduled Summer Schools.

(e) Students entering the Fourth Year in the courses in Mining and Metallurgical Engineering are required to submit evidence that they have had practical experience in mining and metallurgical work at least equivalent in extent to the work done in the regular Summer Schools in these courses, and should by correspondence in the preceding spring secure the approval of the Chairman of the Department concerned of the work which they propose to offer in place of the regular summer work.

SUMMER WORK AND SUMMER ESSAYS

Students in Engineering are required to submit to the Faculty evidence of having had at least six months of experience in practical engineering work before receiving their degrees (see page 415). Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer, and handed in at the office not later than 5 p.m., Friday, October 20th, 1944.

A similar regulation applies to students in Architecture.

GENERAL REQUIREMENTS

Essays are regarded as a very important part of the curriculum and a high standard is exacted. They are judged on their subject matter, literary style and the evidence they show of thoughtful preparation.

The most acceptable subject for an essay is a critical description of the work on which the student is engaged during the summer, but a description of any engineering, scientific or industrial work with which he is familiar will be accepted. Students who secure summer engagements in engineering work should take advantage of every opportunity to gather material suitable for an essay.

No essay compiled from books alone will be accepted unless the student has obtained in advance the written approval of the Chairman of his Department. Information obtained from books and other sources may, however, be used or even quoted verbatim, provided full acknowledgment is made and all quotations are enclosed in quotation marks. Similarly, drawings, blue prints, etc., may be included in the essay, provided full acknowledgment is made.

The student should be particularly careful to make acknowledgment of information or drawings regarding matters which have not come within his personal experience, by means of a letter attached to the essay.

Essays should normally be from 2,000 to 5,000 words in length. They should be illustrated by drawings, sketches, and, when desirable, by photographs, specimens, etc., and MUST BE TYPEWRITTEN on paper of substantial quality and 8½ x 11 inches in size.

Essays, with the exception of those which require consideration by the Committee on English because of literary defects, or those which are considered eligible for prizes, will be returned to students on or before December 1st. Students are encouraged to submit their essays to the Engineering Institute of Canada or to the Canadian Institute of Mining and Metallurgy, in competition for students' prizes offered by these Institutes.

All summer essays must be handed in not later than 5 p.m., Monday, October 2nd, 1944.

Students in Engineering will hand in essays at the Engineering Library, students in Architecture at the office of the Director of the School.

STUDENTS IN ARCHITECTURE

During each summer vacation students are required to obtain at least six weeks' practical experience satisfactory to the Faculty and are required to prepare a report of about 3,000 words upon their summer employment. Rules governing these reports are as stated above for essays.

In addition, students entering the various years are required to fulfil the following requirements:—

THIRD YEAR

Obtain a satisfactory standing in the special sketching and drawing school held in the four weeks immediately following the close of the second year examinations in April.

Fourth and Fifth Years

Obtain a satisfactory standing in the special design schools held in the four weeks immediately following the close of the third and fourth year examinations in April.

STUDENTS IN ENGINEERING

Second Year

132. Students entering the Second Year must submit an essay. The essay, which should be approximately 2,000 words in length, must be illustrated and must conform to the requirements for essays stated above.

Students who are not engaged during the summer in engineering, scientific or industrial work that would be a suitable subject for an essay, may write on one of the following subjects: (1) War-time Military Training in the Universities; (2) The St. Lawrence Waterway; (3) The Function of a Ministry of Information in War-time; (4) What can the Engineer Do in Government, Industry and the Services in War-time?

Third Year

133. Students entering the Third Year must submit an essay, preferably on engineering work in which they have been engaged.

Essays must conform to the requirements stated above except that they may be somewhat shorter, but not less than 2,000 words in length.

Students who are not engaged during the summer in suitable engineering, scientific or industrial work are advised themselves to choose a subject for an essay, in consultation with the Chairman of their Department, or they may write on one of the following:—

Chemical Engineering.—(1) The Refining of Petroleum; (2) The Solvay Process for Soda Manufacturing; (3) Manufacture of Contact Sulphuric Acid; (4) Synthetic Resins; (5) Paints or Varnishes.

Civil Engineering.—(1) Historical Development of Trussed Frameworks; (2) Historical Development of Reinforced Concrete; (3) Ancient and Modern Water Supplies.

Electrical Engineering.—The Application of Electric Power to Industrial Establishments.

Mechanical Engineering.—(1) Powdered Fuel for Power Production; (2) Pulp and Paper Manufacture; (3) Shop Management.

Metallurgical Engineering.—(1) Roasting Sulphide Concentrates; (2) Reverberatory Copper Smelting; (3) Heat Treatment of Steel.

Mining Engineering.—(1) Explosives Used in Mining; (2) Hoisting from Mines; (3) Mucking and Transportation in Mines; (4) The Cyanide Process for Extraction of Minerals from Ores.

Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students who are not engaged in suitable work may write on one of the following subjects, or preferably on an engineering subject approved by the Chairman of their Department.

Chemical Engineering.—(1) Nitrogen Fixation Industries; (2) Kraft Pulp; or Sulphite Pulp; or Viscose Rayon; (3) Economic Factors in Chemical Industries; (4) Electrolytic Caustic and Chlorine; (5) Instruments; (6) Automatic Control of Process Variables.

Civil Engineering.—(1) Welding of Structural Steel; (2) High-Early-Strength Concrete; (3) Aerial Surveying; (4) Small-Town Sewage Disposal Plants; (5) A Short History of Soil Mechanics.

Electrical Engineering.—(1) Applications of Electricity to any Particular Branch of Industry, or to Industry in General; (2) Applications of Thermionic Tubes to Electrical Communication and to Industry; (3) Electrification of Railways; (4) The Insulation of Underground Cables or of Overhead Lines; (5) The Magnetic Properties of Iron and its Alloys.

Mechanical Engineering.—(1) Power Costs; (2) Central Station Heating; (3) Methods of Increasing Production in Manufacturing; (4) Diesel-driven Motor Buses.

Metallurgical Engineering.—(1) The Treatment, Uses and Disposal of Gases from Metallurgical Furnaces; (2) The Economic Use of Electric Power in Metallurgical Furnaces; (3) Corrosion-resisting Alloy Steels; (4) Electro-metallurgical Industries.

Mining Engineering.—(1) Prospecting and Exploration of Mineral Deposits; (2) Mine Drainage; (3) The Flotation Process for Ore Concentration; (4) Compressed Air and its Application to Mining; (5) Mineral Production and its Effect on Industrial Development.

Essays must conform in all respects to the requirements stated on page 431.

SUBJECTS OF INSTRUCTION

The following courses in Architecture and Engineering are subject to modification during the year, as the Advisory Committee on Architecture or the Faculty may deem advisable.

SCHOOL OF ARCHITECTURE

Director and Associate Professor.....JOHN BLAND

Sessional Lecturers.....H. L. FETHERSTONHAUGH, H. R. LITTLE, ARTHUR LISMER

Special Instructors.....J. C. McDOUGALL, GORDON WEBBER

Advisory Committee (see page 405).

1. DESIGN, CLASS A (P. 9, 18). The design of simple structures and domestic buildings. 24 lectures, 36 draughting periods.
Professor Bland.

1A Four weeks following sessional examinations in April are devoted to continuous design problems.

2. DESIGN, CLASS B (P. 1, 1A, 7, 19, 90). The design of public buildings with details of construction. 72 draughting periods.
Mr. Fetherstonhaugh.

2A Four weeks following sessional examinations in April are devoted to continuous design problems.

3. DESIGN, CLASS C (P. 2, 2A, 94). Problems involving structuré, and layout of complex buildings and groups of buildings. The diploma design for graduation is done in the second term.
Mr. Fetherstonhaugh.

5. HISTORY OF ART (SCULPTURE AND PAINTING). 24 lectures.
Dr. Lismer.

6. ÆSTHETICS (THEORY OF DESIGN). 24 lectures.....Dr. Lismer.

7. PLANNING (GROWTH AND PATTERN OF TOWNS) 48 lectures.
Professor Bland.

8. ARCHITECTURAL DRAWING AND COLOUR. (Descriptive Geometry, Perspective and Abstract Design). 24 lectures and 48 draughting periods.....Mr. Webber.

P—Prerequisite.

9. Architectural Drawing and Colour II. (Line and Colour). 24 lectures and 24 draughting periods.....Mr. Webber.

14. Ancient and Classical Architecture. 48 lectures. Professor Bland.

Text Books:—Bannister Fletcher, History of Architecture (Batsford); Zimmern, Greek Commonwealth (Oxford); Dickinson, Greek View of Life (Oxford); Mitchison, Corn King and Spring Queen (Cape); Carcopino, Daily Life in Ancient Rome (Routledge).

15. Mediaeval Architecture. 48 lectures.....Professor Bland.

Text Books:—Power, Mediaeval Architecture (Talbot); Power, Mediaeval People (Methuen); Prior, History of Gothic Art in England (Bill). Given in alternate years.

16. Renaissance Architecture. 48 lectures.....Professor Bland.

Text Books:—Anderson, Italian Renaissance Architecture (Batsford); Ward, French Renaissance Architecture (Batsford); Gotch, Architecture of the Renaissance in England (Batsford); Trevelyan, English Social History (Longmans Grem). Given in alternate years.

17. Modern Architecture. 48 lectures.....Professor Bland.

Text Books:—Clark, Gothic Revival (Constable); Hammond, Rise of Modern Industry (Methuen); Mumford, Culture of Cities (Secker and Warburg); Giedion, Space, Time and Architecture (Harvard).

18. Building Construction I. (P. 340 or 8). 24 lectures, 24 draughting periods.....Mr. Little.

Text Books:—Frame Construction Details (Nat. Lumber Mfg. Assn.); Manual of Face Brick Construction (American Face Brick Assn.); Huntington, Building Construction (Wiley).

19. Building Construction II. (P. 18). 24 lectures, 24 draughting periods.....Mr. Little.

Text Books:—Huntington, Building Construction (Wiley); Gay and Parker, Materials and Methods of Architectural Construction (Wiley); National Research Council, National Building Code.

20. Electricity. (P. 311-312). 24 lectures.....Professor Wallace. (Given in alternate years.)

21. Acoustics. (P. 311-312). 24 lectures.....Professor Reilley. (Given in alternate years.)

22. Plumbing. (P. 311-312). 24 lectures.....To be appointed. (Given in alternate years.)

23. Social Observation for Architects. 72 lectures. (Given in alternate years.) Professor Dawson.

P—Prerequisite.

24. PROFESSIONAL PRACTICE. 24 lectures.....Mr. McDougall.
Text Books:—A.I.A. Handbook of Architectural Practice; Architects' Law Manual (Pencil Points Press); P.Q.A.A., R.A.I.C. and A.I.A. Standard Documents.

25. SPECIFICATIONS. 24 lectures.....Mr. Little
Text Books:—Sleeper, Architectural Specifications (Wiley).

26. SKETCHING SCHOOL. Four week period after the end of sessional examinations in April. (Opening date for 1944-45 session, Monday, September 11th, 1944.).....Mr. Webber and Dr. Lismer.

27, 28, 29, 30. FREEHAND DRAWING, RENDERING AND MODELLING STUDIO WORK (classes in the Art Association).....Dr. Lismer.

31, 32, 33, 34. AN ESSAY, prepared during the session, on an historical or a theoretical subject, is required each year from all students except those of the first year.....Professor Bland.

35, 36, 37, 38. SUMMER WORK.

Before the degree is granted the student must have had at least six months' experience satisfactory to the Faculty. (See pages 415 and 431.)

During each summer the student must prepare a report of about 3,000 words upon his summer employment.

In addition for students entering the Third Year there is a sketching school held in the four weeks immediately following the close of the Second Year examinations in April.

And for students entering the Fourth and Fifth Years there is a design school held in the four weeks immediately following the close of the Third and Fourth Year examinations in April.

DEPARTMENT OF CHEMISTRY

Professors	O. MAASS W. H. HATCHER C. B. PURVES
Associate Professors	J. B. PHILLIPS* J. H. MENNIE W. H. BARNES
Assistant Professors	C. A. WINKLER R. V. V. NICHOLLS J. H. HOLDEN
Lecturer	R. BOYER
Sessional Lecturers	A. S. ROSS W. GAUVIN
Demonstrators and Graduates Assistants	To be appointed.

FIRST YEAR LECTURES AND LABORATORY.

51. ELEMENTARY PHYSICAL CHEMISTRY AND LABORATORY. Two lectures and one one-hour problem period per week.

Professor Barnes, Dr. Ross and Demonstrators.

Text Books:—Maass & Steacie, Introduction to the Principles of Physical Chemistry, Second Edition (Wiley).

*On leave of absence for war work.

SECOND YEAR LECTURES AND LABORATORY.

53. INORGANIC QUALITATIVE ANALYSIS AND LABORATORY. (Arts and Science 3a). (P. 51). Two lectures and six hours laboratory per week, first term.....Professor Mennie.

Text-book:—Curtman, Qualitative Chemical Analysis (Macmillan).

54. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. (Arts and Science 3b). (P. 51). Two lectures and nine hours laboratory per week, second term.....Professor Mennie.

55. INORGANIC QUANTITATIVE ANALYSIS LABORATORY. Four weeks summer school. (See page 431).....Professor Mennie.

56. ORGANIC CHEMISTRY. (Arts and Science 2.) (C. 57.) Three lectures per week.....Dr. Boyer.

Text-books:—Caldwell, Organic Chemistry (Houghton, Mifflin)

57. ORGANIC CHEMISTRY LABORATORY. (Arts and Science 2.) (C. 56.) Three hours per week.....Professor Hatcher and Dr. Boyer.

THIRD YEAR LECTURES AND LABORATORY.

61. ADVANCED QUANTITATIVE ANALYSIS AND LABORATORY. (P. 54 and 55). Four weeks summer school. (See page 431). Professor Mennie.

62. CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS. One lecture per week, optional.....Professor Nicholls.

*63. ELEMENTARY CHIMICAL ENGINEERING. (P. 51). Two lectures per week.....Professor Phillips and Mr. Holden.

*65. ADVANCED ORGANIC CHEMISTRY AND LABORATORY. (Arts and Science 5). (P. 56). Two lectures and six hours laboratory per week. Professor Nicholls.

*66. PHYSICAL CHEMISTRY. (P. 51, C. 76.) (Arts and Science 7.) One lecture per week.....Professor Winkler.

Text-book:—Loeb, Kinetic Theory of Gases (McGraw-Hill).

66A. PHYSICAL CHEMISTRY LABORATORY. (C. 66, 76) (Arts and Science 7L). Three hours laboratory per week.
Professor Winkler, Dr. Ross and Demonstrator.

71. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY. (P. 53). One lecture and eight hours laboratory per week, first term.
Professor Mennie.

This course is available for students in the Department of Geology in the Faculty of Arts and Science.

73. APPLIED THERMODYNAMICS. (C. 63, 76) Two lectures per week.
Professor Holden.

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*Courses marked with a star are open to graduates as well as undergraduates.

P—Prerequisite. C—Concurrent.

*76. Chemical Thermodynamics. (Arts and Science 17). (P. 51, C. 66, 73.) Two lectures per week.....Professor Winkler.

Text-books:—Steiner, Introduction to Chemical Thermodynamics (McGraw-Hill); Lewis & Randall, Thermodynamics (McGraw-Hill).

Fourth Year Lectures and Laboratory.

*66B. Physical and Colloid Chemistry Laboratory. (P. 66, 76.) (C. 67, 75.) (Arts and Science 7L.) Six hours laboratory per week.
Professor Winkler, Dr. Ross and Demonstrator.

Text-books:—Daniels, Matthews and Williams, Experimental Physical Chemistry (McGraw-Hill).

67. Advanced Physical Chemistry (Arta and Science 12). (P. 66, 76.) Two lectures per week.....Professor Winkler.

Text-book:—Hinshelwood, Kinetics of Chemical Change (Oxford).

*68. Inorganic Chemical Technology. Two lectures per week, first term.....Mr. Gauvin.

*69. Organic Chemical Technology. Two lectures per week. second term.....Mr. Gauvin.

*70. Electrochemistry. (Arts and Science 11). Two lectures per week. First term.....Professor Mennie.

Reference books:—Creighton, Electrochemistry (Wiley); Allmand, Applied Electrochemistry (Arnold); Glasstone, Electrochemistry of Solutions (Methuen).

*72. Advanced Inorganic Chemistry. (Arts and Science 6). Two lectures per week.....Professor Hatcher.

*74. History of Chemistry. (Arts and Science 9). One lecture per week, optional. (Not given in 1944-45).....Professor Barnes.

Text-book:—Partington, A Short History of Chemistry (Macmillan).

*75. Colloid Chemistry. (Arts and Science 15). One lecture per week (Laboratory work, see 66A).....Professor Winkler.

Text-books:—Hartman, Colloid Chemistry (Houghton-Mifflin); Lewis, Squires and Broughton, Industrial Chemistry of Colloidal and Amorphous Materials (Macmillan).

*77. Chemical Engineering. (P. 63, C. 78). Five lectures per week.....Professor Holden.

Text-book:—Walker, Lewis, McAdams and Gilliland, Principles of Chemical Engineering (McGraw-Hill).

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*Subjects marked with a star are open to graduates as well as undergraduates.

P—Prerequisite. C—Concurrent.

78. CHEMICAL ENGINEERING LABORATORY. (C. 77). Six hours per week.....Professor Holden and Mr. Gauvin.

Graduates in Chemical Engineering may proceed, if their work has been of sufficiently high standard, to the Master's degree in Chemistry or in Chemical Engineering. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors.....{R. DeL. FRENCH
R. E. JAMIESON*

Emeritus Professor (*Post-Retirement*)..... E. BROWN

Associate Professors.....{G. J. DODD
F. M. WOOD

Assistant Professor.....

Assistant in Charge of Testing Laboratory.....S. D. MACNAB

FIRST YEAR

80. ENGINEERING PROBLEMS. Three hours per week.
Professor Dodd and Staff.

194. MECHANICS. Two lectures per week.
Professors Brown and Wood.

Text-book:—Mimeographed notes.

194A. MECHANICS PROBLEMS (Architecture). Three hours per week.
Professor Wood.

SECOND YEAR.

80A. ENGINEERING PROBLEMS. One lecture and two hours problems per week, second term.....Professor Phillips and Staff.

81. MATERIALS OF ENGINEERING. One hour per week.
Professors French and Sproule.

Text-book:—University notes.

83. MECHANICS. (P. 194, C. 198). Two lectures and two hours problems per week.....Professors Dodd and Wood.

Text-books:—Poorman, Applied Mechanics (McGraw-Hill); Girvin, Applied Mechanics (Int. Textbook Co.).

THIRD YEAR.

86. MECHANICS. (P. 83, 198). One lecture per week.
Professor Wood.

Text-books:—Worthington, Dynamics of Rotation (Longmans Green); Poorman, Applied Mechanics (McGraw-Hill).

P—Prerequisite. C—Concurrent.
*On leave of absence for war work.

87. STRENGTH OF MATERIALS. (P. 83, 198). Two lectures per week. Professors Brown and Dodd.

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko-MacCullough; Elements of Strength of Materials (Van Nostrand).

88. STRENGTH OF MATERIALS LABORATORY. (C. 87). Three hours per week, second term.....Professor Dodd and Staff.

89. FOUNDATIONS. (C. 87). One lecture per week, session; three hours problems per week, second term.....Professor Dodd.

Text-book:—Jacoby and Davis, Foundations of Bridges and Buildings (McGraw-Hill).

90. ELEMENTS OF STRUCTURAL DESIGN. (C. 87). One lecture and three hours problems per week, second term.....Professor Dodd.

Text-books:—Ketchum, Structural Engineer's Handbook (McGraw-Hill); Ketchum, Mill Buildings (McGraw-Hill); Bishop, Structural Drafting and Design of Details (Wiley); Grinter, Design of Modern Steel Structures (Macmillan); Steel Construction (American Institute of Steel Construction); C.E.S.A. Standard Specifications for Steel Structures for Buildings.

92. RAILWAY AND HIGHWAY ENGINEERING. (P. 83, 346, 347, 348). Two lectures and six hours laboratory, first term; one lecture and three hours laboratory, second term.....Professors French and Wood.

Text-books:—Allen, Railway Curves and Earthwork (McGraw-Hill); Williams, Design of Railway Location (Wiley); Tratman, Railway Track and Trackwork (McGraw-Hill); Bruce, Highway Design and Construction (Int. Textbook Co.).

97. HYDRAULICS. (P. 83). Two hours per week, first term. Professor Brown.

Text-books:—Schoder and Dawson, Hydraulics (McGraw-Hill); Gibson, Hydraulics and its Applications (Constable); King, Wisler and Woodburn, Hydraulics (John Wiley & Sons).

98. HYDRAULICS LABORATORY. (C. 97.) Three hours per week, first term.....Professor Wood.

82. SANITARY SCIENCE. One hour per week, first term. There is an additional hour per week for Architects.....Professor Macdonald.

FOURTH YEAR.

94. THEORY OF STRUCTURES. (P. 87.)

One lecture and three hours problems per week, first term; two lectures and six hours problems per week, second term....Professor Jamieson.

Text-books:—Johnson, Bryan and Turneaure, Modern Framed Structures, Parts I and II (Wiley); Shedd and Vawter, Theory of Simple Structures (McGraw-Hill); Sutherland and Bowman, Structural Theory (Wiley).

P—Prerequisite. C—Concurrent.

95 and 95A. STRENGTH OF MATERIALS. (P. 87.) One lecture and three hours draughting per week, first term; two lectures per week, second term. Professors Brown and Jamieson.

Text-books:—Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko and Lessels, Applied Elasticity (W. T. N. S. Press): Turneaure and Maurer, Principles of Reinforced Concrete Construction (Wiley); Urquhart and O'Rourke, Design of Concrete Structures (McGraw-Hill); Standard Specifications for Concrete and Reinforced Concrete.

96. BRIDGE DESIGN. (P. 90, C. 94.) Two lectures and six hours draughting per week, session.....Professor Dodd.

Text-books: — Kirkham, Structural Engineering (McGraw-Hill); Ketchum, Structural Engineers' Handbook (McGraw-Hill); Shedd, Structural Design in Steel (Wiley); Grinter, Design of Modern Steel Structures (Macmillan).

99. HYDRAULIC MACHINES. (C. 97.) Two lectures per week, second term.....Professor Brown.

Text-book:—Creager and Justin, Hydro-Electirc Handbook (Wiley).

100. HYDRAULICS AND LABORATORY. (P. 83.). One lecture per week and six three-hour laboratory periods, first term.....Professor Wood.

Text-books:—King and Wisler, Hydraulics (Wiley); Daugherty, Hydraulics (McGraw-Hill).

101. MUNICIPAL ENGINEERING. (P. 97, 98.) Two lectures per week, session, three hours draughting per week, second term. Professor French.

Text-books:—Turneaure & Russell, Public Water Supplies (Wiley). Metcalf and Eddy, Sewerage and Sewage Disposal (McGraw-Hill).

103. WASTE DISPOSAL. (P. 82.) One lecture per week, first term. Professor French.

Text-book:—Refuse Collection Practice (Am. Pub. Works Assoc.).

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

Graduate Courses are offered in Statically Indeterminate Structures, Technical Elasticity, Secondary Stresses and Highway Engineering.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

DRAWING

Mechanical Drawing and Lettering directed by Department of Mechanical Engineering.

Descriptive Geometry directed by Department of Surveying and Geodesy.

P—Prerequisite. C—Concurrent.

FIRST YEAR.

340. MECHANICAL DRAWING. Three hours per week.
Professor Klinck.
Text-book:—French, Engineering Drawing (McGraw-Hill).

341. DESCRIPTIVE GEOMETRY. Six hours per week.
Professor Arcand and Staff.
Text-books:—French, Engineering Drawing (McGraw-Hill); W. G. Smith, Practical Descriptive Geometry (McGraw-Hill).

SECOND YEAR.

343. MECHANICAL DRAWING. (P. 340.) Three hours per week, second term.....Professor Klinck.

344. MECHANICAL DRAWING. (P. 340.) Three hours per week.
Professor Klinck.
Text-book:—French, Engineering Drawing (McGraw-Hill).

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor.....C. V. CHRISTIE
Associate Professor.....G. A. WALLACE
Assistant Professors.....E. G. BURR*, F. S. HOWES
Lecturer.....W. H. SCHIPPEL
Demonstrator.....L. E. A. GAREAU

111. ELEMENTS OF ELECTRICAL ENGINEERING. (P. 198, 315.) Two lectures per week.....Professor Wallace.
Text-book:—Gray and Wallace, Principles and Practice of Electrical Engineering (McGraw-Hill).

112. ELECTRICAL ENGINEERING LABORATORY. (C. 111.) Three hours per week.....Mr. Howes.

THIRD YEAR.

113. ELECTRICAL ENGINEERING. (P. 198, 315.) Four hours per week.
Professor Christie.
Text-book:—Christie, Electrical Engineering (McGraw-Hill).

114. ELECTRICAL ENGINEERING LABORATORY. (C. 113.)
Six hours per week Laboratory.....Mr. Schippel.
Six hours per week Problems.....Professor Wallace.

FOURTH YEAR.

117. ELECTRICAL ENGINEERING. (P. 113, 114, 201.) Four lectures per week.....Professor Christie.
Text-book:—Christie, Electrical Engineering (McGraw-Hill).

P—Prerequisite. C—Concurrent.
*On leave of absence for war work.

118. Electrical Engineering Laboratory. (P. 113, 114, C. 117.) Seven hours per week first term; nine hours per week second term, (Power Option); six hours per week, second term (Communication Option).
Mr. Schippel.

120. Electric Lighting and Power Distribution. Two lectures per week, first term.....Mr. Schippel.
Text-book:—Standard Handbook for Electrical Engineers (McGraw-Hill).

122. Electrical Design and Problems. (P. 113, C. 117.) One lecture per week session. Problems three hours per week, first term; six hours per week, second term (Power Option); three hours per week, second term (Communication Option).
Professor Christie and Mr. Schippel.
Text-book:—Gray, Electrical Machine Design (McGraw-Hill).

123. Applications of Electricity. (P. 113, C. 117.) Three lectures per week, second term, (Power Option).....Mr. Schippel.

124. Electrical Measurements and Laboratory. (P. 113.) Two lectures per week, first term; two hours laboratory per week, first term; three hours laboratory per week, second term.....Professor Wallace.

125. Thermionic Tube Theory. Two lectures and three hours laboratory per week, first term.....Dr. Howes.
Text-book:—Terman, Radio Engineering (McGraw-Hill).

126. Communication Engineering (Wire Communication). (P 201, 113.) Two lectures per week, second term.....Professor Wallace.

127. Communication Engineering (Radio). (P. 113.) Two lectures and three hours laboratory per week, first term; three lectures and six hours laboratory per week, second term (Communication Option).
Dr. Howes.

128. Thermionic Tube Applications. (P. 125.) Two hours lectures per week, second term.....Professor Wallace.

Courses for the Degree of Master of Engineering or Master of Science

Graduate courses are offered in Advanced Mathematics, Physics, Electrical Machine Design, Protection of Electrical Power Systems, Stability of Electrical Power Systems, Inductive Co-ordination of Power and Signal Systems, Electric Circuit Analysis, Advanced Wire Transmission Theory, and Ultra-high Frequency Generators and Receivers.

P—Prerequisite. C—Concurrent.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

ENGINEERING LAW AND ECONOMICS

Bronfman Professor of Economics....BEN H. HIGGINS
Associate Professor of Law.....JOHN P. HUMPHREY
Lecturer in Accountancy.....D. R. PATTON

171. ELEMENTS OF POLITICAL ECOMOMY. Two hours per week, second term.....Professor Higgins.

Text-book:—Clay, Economics for the General Reader (Macmillan).

172. ENGINEERING ECONOMICS. (P. 171.)

(a) CORPORATION FINANCE.....Mr. Patton.
(b) CANADIAN ECONOMIC PROBLEMS.....Professor Higgins.

Two lectures per week, first term.

175. ENGINEERING LAW. One hour per week...Professor Humphrey.

ENGINEERING PRACTICE

A series of related courses designed to acquaint the student with the historical background of his profession, its relation to other professions and its place in the structure of modern society, the usage of English, both written and spoken, in engineering and business; elementary statistical analysis, etc.

135. HISTORY OF SCIENCE. One lecture per week, session.

136. ENGINEERING REPORTS. One lecture per week, session.

137. ENGINEERING REPORTS. One lecture per week, session.

A bonus of 15 marks is granted to each student who successfully completes 137; this bonus is considered in ranking students, but not in determining whether they have passed their years.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....{JOHN J. O'NEILL, R. P. D. GRAHAM, T. H. CLARK
Associate Professors.....{J. E. GILL, F. F. OSBORNE
LeRoy Fellow.....
Demonstrator.....D. M. BAIRD

SECOND YEAR

141. GENERAL GEOLOGY. (Arts and Science 1.)

Two lectures and two hours laboratory per week and excursions on Saturday mornings during October.....Professor Clark.

Text-books:—Longwell, Knopf, Flint, Schubert and Dunbar, Outlines of Geology, 2nd Edition, 1941. (Wiley).

P—Prerequisite. C—Concurrent.

142. MINERALOGY. Two lectures per week.....Professor Graham.

143. DETERMINATIVE MINERALOGY. Two hours laboratory per week. Professor Graham.

THIRD YEAR.

142A. MINERALOGY. (Chemical Engineers only). Two lectures per week for the session.....Professor Graham.

143A. DETERMINATIVE MINERALOGY. (Chemical Engineers only). Three hours laboratory per week, first term.....Professor Graham.

146. PETROGRAPHY. (Arts and Science 10. P. 141, 142, 143.) Two lectures and three hours laboratory per week, second term. Professor Osborne.

References:—Knopf, Rocks and Rock Minerals (Wiley); Smith, Minerals and the Microscope (Murby).

147. PRACTICAL AND FIELD GEOLOGY. (Arts and Science 7. P. 141.) Two lectures and three hours laboratory per week, first term. Professor Gill.

FOURTH YEAR.

148. ORE DEPOSITS. (Arts and Science 8. P. 141, C. 147.) Two lectures per week for the session; three hours laboratory per week, second term.....Professor O'Neill.

Text-book:—Emmons, Principles of Economic Geology (2nd Ed.), McGraw-Hill.

149. GEOLOGY AND NATURAL RESOURCES OF CANADA. (Arts and Science 4. P. 141.) Two lectures and three hours laboratory per week, second term.....Professor Gill.

153. FIELD WORK AND GEOLOGICAL MAPPING. (P. 141, 142, 143.) Professors Clark and Gill.

DEPARTMENT OF MATHEMATICS

Professors.....{N. B. MACLEAN, W. L. G. WILLIAMS}
Associate Professors.....{GORDON PALL, F. M. WOOD}
Assistant Professor.....W. B. ROSS
Lecturer.....

FIRST YEAR.

191. SPHERICAL TRIGONOMETRY AND MENSURATION. Two lectures per week, second term.....Professors MacLean, Williams and Pall

P—Prerequisite. C—Concurrent.

Text-books:—Hart and Hart, Solid Geometry and Spherical Trigonometry (Heath); Mathematical Tables (Chem. Rubber Pub. Co.).

192. ALGEBRA. Two lectures per week.
Professors Maclean, Williams and Pall.

Text-book:—Barnard and Child, A New Algebra, Vol. II. (Macmillan).

193. CALCULUS. Two lectures per week.
Professors MacLean, Williams and Ross

Text-book:—Smith, Salkover and Justice, Calculus (Wiley).

195. ANALYTICAL GEOMETRY. (C. 192.) Two lectures per week, first term.....Professors MacLean, Williams and Pall.

Text-book:—Brown and Manson, Elements of Analytical Geometry (Macmillan).

SECOND YEAR.

198. CALCULUS. (P. 192, 193.) Two lectures per week.
Professors MacLean and Williams.

Text-book:—Smith, Salkover and Justice, Calculus (Wiley).

THIRD YEAR.

201. ALGEBRA AND DIFFERENTIAL EQUATIONS. (P. 192, 193, 198.) Two lectures per week.....Professor Pall.

Text-book:—I. S. and E. S. Sokolnikoff, Higher Mathematics for Engineers and Physicists (McGraw-Hill).

DEPARTMENT OF MECHANICAL ENGINEERING

Professor.....A. R. ROBERTS
Professor (Post-Retirement)....C. M. MCKERGOW
Assistant Professors.....J. A. COOTE, R. H. PATTEN, R. W. KLINCK
Demonstrators.....J. H. BAUDOUIN, R. B. KILLAM
Shop Instructor.....G. ROBERTSON

P—Prerequisite. C—Concurrent.

SECOND YEAR.

218. MECHANICS OF MACHINES. (P. 194.) One lecture, and three hours laboratory per week, second term.....Professor Patten.

Text-book:—Guillet, Kinematics of Machines (Wiley).

THIRD YEAR.

224. MECHANICS OF MACHINES. (P. 83, 218.) Alternative with Accounting (238). Two lectures and one hour problems per week.
Professor Patten.

Text-book:—Ewing, Steam Engine (Longmans Green).

225. MACHINE DESIGN. (C. 87.) Two lectures per week.
Professor Klinck.

Text-books:—Kimball and Barr, Elements of Machine Design (Wiley); Hyland and Kommers, Machine Design (McGraw-Hill).

226. MECHANICAL ENGINEERING. (C. 228.) Two lectures per week. First term only for students in Architecture.
Professor McKergow

Text-book:—MacNaughton, Elementary Steam Power Engineering (Wiley).

227. MECHANICAL ENGINEERING. (C. 228.) Three lectures per week.....Professor McKergow

Text-book:—As for 226.

228. MECHANICAL ENGINEERING LABORATORY. (C. 226, 227.) Three hours per week for all students. First term only for students in Architecture.....Professor Patten

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

229. THERMODYNAMICS. Two hours per week....Professor Roberts.

Text-books:—Keenan and Keyes, Properties of Steam (Wiley); Moyer, Calderwood and Potter, Elements of Engineering Thermodynamics (Wiley); V. W. and G. A. Young, Elements of Engineering Thermodynamics (McGraw-Hill).

231. MECHANICAL DRAWING. (C. 225, P. 344, 233.) Three hours per week.....Professor Klinck.

Text-book:—French, Engineering Drawing (McGraw-Hill).

Ref. book:—Kent, Mechanical Engineers' Handbook, Design and Shop Practice Volume (Wiley).

233. SUMMER SCHOOL. Prerequisite to courses 236 and 231. Four weeks in September, preceding the work of the Third Year.
Professor Klinck and Mr. Robertson.

Text-book:—French, Engineering Drawing (McGraw-Hill).

P—Prerequisite. C—Concurrent.

236. MACHINE SHOP. (P. 233.) Three hours per week.
Mr. Robertson.

237. INDUSTRIAL ENGINEERING. Two lectures per week, first term.
Professor Coote.

Text-book:—Alford, Principles of Industrial Management (Ronald Press.)

238. ACCOUNTING. (Alternative with 224.) One lecture and two hours problems per week.....Professor Coote.

Text-book:—Specthrie, Industrial Accounting (Prentice-Hall).

FOURTH YEAR.

240. MECHANICS OF MACHINES. (P. 224.) (a) *Valve gears and governors*, (b) *Aerodynamics*. Two lectures and one hour problems per week.
Professor McKergow and Mr. Killam.

Text-book:—Jones, Elementary Practical Aerodynamics (Wiley).

241. DESIGNING. (C. 242.) Three hours per week.
Professor Roberts.

242. MACHINE DESIGN. (P. 225, C. 241.) Two lectures per week.
Professor Roberts.

Text-books:—Unwin, Machine Design, Parts I and II (Longmans Green); Kimball and Barr, Elements of Machine Design (Wiley); Faires, Machine Elements (Macmillan).

243. MACHINE DESIGN. (P. 225.) Optional for Electrical Engineering students. Two lectures per week, second term.....Professor Roberts.

244. POWER PLANT DESIGN. (P. 227.) One lecture and three hours draughting per week.....Professor McKergow.

Text-book:—Gebhardt, Steam Power Plant Engineering (Wiley).

247. HEATING AND VENTILATION OF BUILDINGS. (P. 227.) One lecture per week.....Professor Patten.

Text-book: — Allen and Walker, Heating and Air Conditioning (McGraw-Hill).

249. MECHANICAL ENGINEERING LABORATORY. (P. 227, 228.) Nine hours per week.....Professors Roberts and Patten and demonstrators.

Text-books:—Diederichs and Andrae, Experimental Engineering (Wiley).

P—Prerequisite. C—Concurrent.

249A. Mechanical Engineering Laboratory. (P. 227, 228.) Required of students in Fourth Year Mechanical Engineering who take the Industrial Administration option. Six hours per week.

Professors Roberts and Patten and demonstrators.

251. Thermodynamics. Two lectures per week.

Professor Roberts.

Text-books: — Kiefer and Stuart, Engineering Thermodynamics Wiley); Goudie, Steam Turbines (Wiley).

252. Machine Shop. (P. 236.) Three hours per week.

Mr. Robertson.

253. Industrial Engineering. (P. 238.) Two lectures and three hours draughting per week.....Professor Coote.

Text-book:—Lansburgh, Industrial Management (Wiley).

254. Industrial Administration. (C. 252.) One lecture and three hours draughting per week, second term.....Professor Coote.

257. Experimental Engineering. (C. 249, 249A.) One lecture per week.....Professor Roberts.

Text-book:—Diederichs and Andrae, Experimental Engineering (Wiley).

258. Industrial Relations. Two lectures per week, first term.

Professor Coote.

Text-books:—Watkins and Dodd, Management of Labor Relations; Scott, Clothier, Mathewson and Spiegel, Personnel Management (McGraw-Hill).

Summer Schools—see note (b), page 341.

Courses for the Degree of Master of Engineering or Master of Science

Graduate Courses are offered in Engineering Thermodynamics, Machine Design and Industrial Engineering. For particulars of these and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

DEPARTMENT OF MINING AND METALLURGICAL ENGINEERING

Professors.....{L. W. Bladon, O. N. Brown, J. U. MacEwan
Associate Professor.....Gordon St. G. Sproule
Lecturer.....M. D. O'Shaughnessy
Douglas Fellow.....
Dawson Fellow.....
Harrington Fellow.....

MINING ENGINEERING

THIRD YEAR.

291. MINING ENGINEERING. Two lectures per week, first term.

Professor Bladon.

292. MINERAL-DRESSING. Two lectures per week, session. (See 300).
Mr. O'Shaughnessy.

Text-books:—Peele, Mining Engineers' Handbook (Wiley); Lewis, Elements of Mining (Wiley); Gaudin, Principles of Mineral Dressing (McGraw-Hill); Richards and Locke, Text Book of Ore Dressing (McGraw-Hill); Taggart, Handbook of Ore Dressing (Wiley).

FOURTH YEAR.

293. MINE MAPPING. (P. 353, 354.) Three hours per week, first half of first term.....Professor Brown.

297. MINING ENGINEERING. Two lectures per week, first term, and three lectures per week, second term.

Professor Bladon.

298. MINE DESIGN. (P. 111, 112, 226, C. 297, 300.) Six hours draughting per week, second term.

Professors Bladon and Brown.

300. MINERAL-DRESSING. Two lectures per week, first term, and one lecture per week, second term.

Professor Brown and Mr. O'Shaughnessy.

301. MINING COLLOQUIUM. (C. 297, 300.) One hour per week, second term, is given to discussion of subjects pertaining to mining or mineral dressing. One student presides while another opens the discussion.

P—Prerequisite. C—Concurrent.

305. Mineral-Dressing Laboratory. (P. 292, C. 300.) (Metallurgical Engineering Students only). Three hours per week, first term.
Professor Brown and Mr. O'Shaughnessy.

307. Mineral-Dressing Laboratory and Thesis Work. (P. 264.) Three hours per week, first term, and seven hours per week, second term.
Professor Brown and Mr. O'Shaughnessy.

Text-books:—Rabone, Flotation Plant Practice (Mining Publications); Young, Working of Unstratified Mineral Deposits (Benn); Young, Elements of Mining (McGraw-Hill); Chapman and Mott, The Cleaning of Coal (Chapman & Hall); Bullman, The Working of Coal and Other Stratified Minerals (Benn); Baxter and Parks, Mine Examination and Valuation (Finnish Lutheran Book Concern); Weeks, The Ventilation of Mines (McGraw-Hill); Gaudins, Flotation (McGraw-Hill); Dorr, Cyanidation and Concentration of Gold and Silver Ores (McGraw-Hill).

Research Fellowships and Graduate Courses

Courses are offered for graduate students in mining and ore-dressing. (See Announcement of the Faculty of Graduate Studies and Research.) There are three endowed Research Fellowships in the Department. These are awarded to graduates of the Department who show particular aptitude for advanced work.

Field School in Mining

294. All students in Mining Engineering are required to attend the field class at the end of the Third Year.

The work is confined to an intensive study of one or more districts with possible visits to nearby districts under the guidance of members of the staff. The student is required to work in a mine or mineral-dressing plant for at least two months. He is also required to submit his notes and an essay on some phase of the work at the beginning of the Fourth Year.

Courses for the Degree of Master of Engineering

Graduate Courses are offered in Mining Engineering, Mine Organization and Management, Settling of Finely Divided Minerals in Water, Filtration in Mineral-Dressing and Cyanidation, Cyanidation of Gold and Silver Ores, Theory and Practice of Flotation, Fine Grinding and Mine Ventilation.

For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

METALLURGICAL ENGINEERING

THIRD YEAR.

261. METALLURGY OF IRON AND STEEL. One lecture per week.
Professor Sproule.

Text-book:—Stoughton and Butts, Engineering Metallurgy (McGraw-Hill).

262. METALLURGICAL LABORATORY. (C. 261.) Three hours per week, one term..... Professor Sproule.

263. FIRE-ASSAYING. (C. 264.) One lecture per week ,first term.
Professor Sproule.

264. FIRE-ASSAYING LABORATORY. (C. 263.) Four hours per week, first term.....Professor Sproule.

Reference-books:—Smith, Sampling and Assay of the Precious Metals (Griffin); Bugbee, Fire-Assaying (Wiley); Fulton and Sharwood, Manual of Fire-Assaying (McGraw-Hill).

265. METALLURGICAL CALCULATIONS. (C. 261.) Two hours per week.
Professor MacEwan.

266. PHYSICAL METALLURGY. One lecture and two hours laboratory per week, first term, for Mechanical Engineering students.
Professor Sproule.

273. METALLURGICAL LABORATORY. (C. 261.) Three hours per week, second term.....Professor Sproule.

268. METALLURGICAL FIELD SCHOOL. Held at the end of the Third Year; includes visits to metallurgical works in Montreal and vicinity, and to smelters, steel-works and metallurgical refineries within a reasonable distance of Montreal. Students are required to keep notes and to submit a written account of their observations at the conclusion of the Field School. The only expense is for board, lodging and railway fares; these are kept as low as possible.

FOURTH YEAR.

271. METALLURGY (General). (P. 261.) Two lectures per week, session.....Professor MacEwan.
Reference-books are available in Departmental Library.

272. METALLURGY (Advanced). (P. 261, C. 275.) Two lectures per week, session.....Professor MacEwan.
Reference-books are available in Departmental Library.

274. METALLURGICAL THESIS. (P. 261, C. 271.) Three hours laboratory per week, first term; nine hours laboratory per week, second term.....Professors MacEwan and Sproule.

P—Prerequisite. C—Concurrent.

275. ELECTROMETALLURGY. (C. 70.) Two lectures per week, second term.....Professor MacEwan.

Text-book:—Glasstone, Electro Chemistry of Solutions (Methuen).

277. METALLURGICAL COLLOQUIUM. One hour per week, second term.

278. METALLURGICAL PROBLEMS AND DESIGN. (P. 265, C. 272.) Three hours per week, draughting, first term; two lectures and three hours per week, library and draughting, second term.

Professor MacEwan.

279. METALLURGICAL ANALYSIS. (P. 53.) Three hours laboratory per week, first term.....Mr. O'Shaughnessy.

280. METALLOGRAPHY. Two lectures per week, session.

Professor Sproule.

Text-books:—Sauveur, Metallography of Iron and Steel (University Press); Doan, Principles of Physical Metallurgy (McGraw-Hill); Van Wert, Introduction to Physical Metallurgy (McGraw-Hill); Jeffries and Archer, Science of Metals (McGraw-Hill).

281. METALLOGRAPHIC LABORATORY. Three hours per week, second term.....Professor Sproule.

284. METALLURGICAL LABORATORY. (P. 261.) Three hours per week, second term, arranged to illustrate 261 and 271. For Mining Engineering Students.....Professor Sproule.

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

Graduate Courses are offered in Advanced Metallurgy, Electrometallurgy, Metallurgical Problems and Metallography. For particulars of these and the qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

P—Prerequisite. C—Concurrent.

DEPARTMENT OF PHYSICS

Professors.....{A. N. Shaw, D. A. Keys, J. S. Foster, H. E. Reilley

Assistant Professors.....{H. G. I. Watson, F. R. Terroux

Lecturer.....A. I. McPherson

Instructor in Laboratory Technique.....H. T. Pye

Demonstrator (1943-1944).....Kaufman, H.

Part-Time Demonstrators (1943-44):

de Angelis, M. L.
Bauer, T. W.
Bunting, S. S.
Cam, N.
Clark, N.E.
Eadie, F. S.
Edelman, F.
Hardie, R. H.
*Harkness, V.
Isenberg, J. S.
LeBel, J. E.
Mamelak, J. S.
Nirenberg, L.
*Osborne, D.
Palmer, W. M.
*Rosenthall, E.
*Ross, W. B.
Webb, F. T.

First Year.

311. Heat, Magnetism and Electricity. (Arts and Science 2.) (C. 312.) Three lectures per week.....Professors Shaw and Reilley.

Text-books:—Duncan and Starling, Heat, Light and Sound (Macmillan); Brown, Electricity and Magnetism (Holt).

312. Laboratory Course. (Arts and Science 2.) (C. 311.) Two hours per week..Professors Terroux, H. G. I. Watson and demonstrators.

Text-books:—Heat, Sound and Light Laboratory Manual (Renouf Pub. Co.); Electricity and Magnetism Laboratory Manual (mimeographed).

Second Year.

315. Electricity, Light and Sound. (Arts and Science 3A.) (P. 311, C. 316.) Two lectures and one hour voluntary tutorial per week.
Professors Reilley and H. G. I. Watson.

Text-books:—Duncan and Starling, Heat, Light and Sound (Macmillan); Brown, Electricity and Magnetism (Holt).

Reference Book:—Starling, Electricity and Magnetism (Longmans).

316. Laboratory Course. (Arts and Science 3A.) (P. 311, C. 315.) Three hours per week.
Professors H. G. I. Watson, Terroux and demonstrators.

Text-book—Electricity and Megnetism Laboratory Manual (mimeographed); Heat, Sound and Light Laboratory Manual (Renouf Pub. Co.).

P—Prerequisite. C—Concurrent.
*Members of other University departments.

THIRD YEAR.

318. ELECTRICITY. (Arts and Science 6C.) (P. 315.) Two lectures per week, first term.....Professor Keys.

Text-book:—Crowther, Ions, Electrons and Ionizing Radiations (Arnold).

FOURTH YEAR.

320. APPLIED GEOPHYSICS. (Arts and Science 12, Graduates W.) Two lectures per week, first term.....Professor Keys.

Text-book:—Eve and Keys, Applied Geophysics, 2nd edition (Cambridge).

Reference Book:—Heiland, Geophysical Exploration (Prentice-Hall).

For Graduate Courses in Physics see the Announcement of the Faculty of Graduate Studies and Research.

COURSE IN ENGINEERING PHYSICS

This course is intended to train men for research or academic positions. Subject to the approval of the Chairmen of the Departments of Electrical Engineering and of Physics, it is available to

(1) students in the Faculty of Arts and Science entering their third year who have satisfactorily completed the second year Honours Course in Mathematics and Physics.

(2) students in Engineering who have completed the first and second years with first or second class standing in Mathematics and Physics.

The numbers of the courses below refer to the Physics syllabus given in the Announcement of the Faculty of Arts and Science.

THIRD YEAR.

Mathematics, 6 & 7.

Physics, 5B, 6B (or 8B), 6C.

Electrical Engineering, 113, 114.

FOURTH YEAR.

Mathematics, 10 or 11.

Physics. 5A, 6A, 7A, 7B, 8A, 8B (or 6B), 9.

*Summer Thesis or Shop Work.

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*This is required in the case of students proceeding later to the degree of B.Eng. P—Prequisite. C—Concurrent.

The student may now receive the B.Sc. degree with Honours in Mathematics and Physics. In his fifth year he may either proceed towards the M.Sc. degree taking some of the fourth-year Electircal Engineering courses as advised by the Chairmen of the Departments of Physics and of Electrical Engineering; or, if he has completed the first and second years in Engineering, he may proceed to the degree of Bachelor of Engineering in Electrical Engineering, taking such subjects of the third and fourth year courses in Engineering as are approved by the Faculty of Engineering.

DEPARTMENT OF SURVEYING AND GEODESY

Associate Professor.....A. J. KELLY*
Assistant Professor.....L. J. ARCAND
Sessional Lecturer.....C. C. LINDSAY
Demonstrator.....R. H. CLARK

Part-Time Demonstrators (1943-44).....J. P. BORBEY, C. J. ELDER, F. GUADAGNI, T. SALMAN

FIRST YEAR.

341. DESCRIPTIVE GEOMETRY. (See page 446.)

345. SURVEYING. Two lectures per week, second term.
Mr. Lindsay.

Text-book:—Davis and Kelly, Short Course in Surveying (McGraw-Hill).

SECOND YEAR.

346. SURVEYING. (P. 191, 345.) Two lectures per week, first term.
Mr. Lindsay.

Text-book:—Davis and Kelly, Short Course in Surveying (McGraw-Hill).

347. FIELD WORK. (P. 191, 345.)..Mr. O'Shaughnessy and Staff.

348, 349, MAPPING.....Professor Arcand and Mr. Clark.

Text-book:—Sloane and Montz, Elements of Topographic Drawing (McGraw-Hill).

THIRD YEAR.

350. MAPPING. Two hours draughting, second term.
Mr. O'Shaughnessy.

351. MAP PROJECTIONS. Three hours draughting, first term.

P—Prerequisite. C—Concurrent.
*On leave of absence.

352. Surveying. (P. 191, 346, 347.) Two lectures per week, second term. Mr. O'Shaughnessy.

Text-book:—W. W. Staley, Introduction to Mine Surveying (Stanford University Press).

353. Surveying. (P. 191, 346, 347.) Two lectures per week. Professor Arcand and Mr. Lindsay.

Text-books:—Davis and Foote, Surveying (McGraw-Hill); J. H. Service, Essentials of Engineering Astronomy (Prentice Hall).

354. Field Work. (P. 346, 347.)

Fourth Year.

359. Geodesy. (P. 191, 353.) Two lectures per week, first term. Professor Arcand.

References:—Hosmer, Geodesy (Wiley). Sharp, Geodetic Control Surveys (Wiley).

360. Geodetic Laboratory. (P. 191, C. 359.) Three yours per week, first term.....Professor Arcand.

361. Field Work. (P. 353, 354.)

Field Work

Field work is required of all students entering the Second Year, except those taking Chemical Engineering, of students entering the Third Year in the courses in Civil and in Mining Engineering, and of students entering the Fourth Year course in Civil Engineering. The work will begin in 1945 on or about April 25th and will continue for four weeks.

Students entering Second and higher Years from other Universitie or from other Faculties, who cannot attend the above courses in Field Work, must attend Special Summer Schools, details of which are given on page 431.

P—Prerequisite. C—Concurrent.

REGULATIONS CONCERNING PREREQUISITE SUBJECTS, STANDING AND PROMOTION

(1) Students proceeding to a degree are classed as undergraduates or conditioned undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their courses or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they failed. Conditioned undergraduates are those who have failed ro remove all their conditions as above.

(2) No student proceeding to a degree is permitted to register in any year unless he has passed in all subjects prerequisite to that year.

(3) No student proceeding to a degree is permitted to register in any year if he is conditioned in non-prerequisite subjects totalling more than 150 marks.

(4) No undergraduate conditioned in any entrance requirement is permitted to register for any Second Year courses, nor is any undergraduate conditioned in any First or Second Year subject permitted to register for any Third or Fourth Year courses, respectively.

(5) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes without regard to the prerequisite rule, provided that they have obtained the permission of the chairman of each department concerned, and that their courses are approved by the Committee on Registration, Standing and Promotion.

(6) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he will not be given credit for subjects taken in contravention of the prerequisite rule, until he has also passed examinations or secured exemptions in such prerequisites as may be demanded by the Committee on Registration, Standing and Promotion, and, on the recommendation of this Committee, has had his case approved by the Faculty.

(7) Partial students are not eligible to take supplemental examinations.

(8) No Fourth Year student is allowed a supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.

First Year

All students of the First Year taking the course for the first time, who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the First Year, in which standing is determined by sessional examinations, or in four such subjects aggregating 350 possible marks or over, will not be permitted to register in the Second Year for the following session.

Such students may, at the discretion of the Faculty, be permitted to repeat the First Year, and if they do so they may obtain exemption in any draughting-room or laboratory course in which they have obtained 65% or better. In no case will exemption from any final examination be granted to a student who is repeating his year.

Any student repeating the work of the First Year, who does not obtain an average of 60% in all repeated courses and final examinations of the First Year, will be permanently debarred from the Faculty.

Any student who fails in the First Year for the first time, and is not permitted to register for the Second Year in the following session, may register in a subsequent session if in the interim he has cleared his record in all prerequisite subjects and is not carrying failures in non-prerequisite subjects aggregating more than 150 marks.

In order to clear his record he must satisfy the following requirements:

1. He must write examinations in all of the subjects of the First Year in which he obtained less than 65%, and must obtain an average of not less than 60% in these examinations.
2. These examinations must be written either during the regular examination periods of a subsequent session, or during the period of supplemental examinations in the following September. Examinations must all be written during an academic year of twelve months.

Second Year

All students of the Second Year taking the course for the first time, who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, will not be permitted to register in the Third Year for the following session.

Such students may, at the discretion of the Faculty, be permitted to repeat the Second Year, and if they do so they may obtain exemption in any draughting-room or laboratory course in which they have obtained 65% or better. In no case will exemption from any final examination be granted to a student who is repeating his year.

Any student repeating the work of the Second Year, who does not obtain an average of 60% in all repeated courses and final examinations of the Second Year, will be permanently debarred from the Faculty.

Any student who fails in the Second Year for the first time, and is not permitted to register for the Third Year in the following session, may register in a subsequent session if in the interim he has cleared his record in all prerequisite subjects and is not carrying failures in non-prerequisite subjects aggregating more than 150 marks.

In order to clear his record he must satisfy the following requirements:

1. He must write examinations in all of the subjects of the Second Year in which he obtained less than 65%, and must obtain an average of not less than 60% in these examinations.
2. These examinations must be written either during the regular examination periods of a subsequent session, or during the period of supplemental examinations in the following September. Examinations must all be written during an academic year of twelve months.

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FACULTY OF MEDICINE

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McGILL UNIVERSITY

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.

Dean of the Faculty.....J. C. Meakins, M.D., F.R.C.S., F.R.C.P., F.R.S.C.

Secretary of the Faculty.....J. F. McIntosh, B.A., M.D., C.M.

Bursar.....W. Bentley, C.G.A., A.C.I.S.

Registrar.....T. H. Matthews, M.A.

University Librarian.....Gerhard R. Lomer, M.A., Ph.D., F.L.A.

Honorary Medical Librarian.....R. L. Stehle, M.A., Ph.D.

Osler Librarian and Director of the Museum of the History of Medicine.W. W. Francis, A.B., M.D.

Assistant Secretary of the Faculty.....Miss G. D. Mudge.

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate announcement, which may be obtained from the Registrar's Office. The announcement also contains the names of members of the staff on active service.

FACULTY OF MEDICINE

The one hundredth and twelfth session of the Faculty will open on September 6th, 1944, for students of the 1st year.

REQUIREMENTS FOR ENTRANCE

The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof), including courses in the following subjects: Physics, one year with laboratory work; Biology, one year of General Biology or Zoology with laboratory work; half year of Botany and half year of Zoology will be accepted, but not one year of Botany alone; Chemistry, two full courses, including one full course of Organic Chemistry with laboratory work. Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body where they wish to practise.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a Calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than March 1st.

A fee of $25.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office on Tuesday, September 5th, 1944. Those who register after this date will be required to pay a late registration fee of $5.00 if they register during the first week of the session and $10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

UNIVERSITY FEES

1. REGULAR STUDENTS.

Annual fee for British students	$375.00
By instalments: each of two instalments	190.00
Annual fee for Non-British students	475.00
By instalments: each of two instalments	240.00

2. REPEATING A YEAR.

British students repeating a year pay	375.00
Non-British students repeating a year pay	475.00

3. PARTIAL STUDENTS.

Qualified students may be admitted as partials to one or more courses on payment of special fees.

4. AD EUNDEM FEE.

Students entering any year above the first pay a special *ad eundem* fee of $10.00

5. DIPLOMA IN PUBLIC HEALTH FEES.

The fee for the graduate course in Public Health, including laboratory and outdoor work, is $150.00 for British and $200.00 for Non-British students. Students in this course are eligible for Health Service on payment of $5.00.

6. CAUTION MONEY.

Payable by every student, and returned, less deductions for damage, loss, etc., at the end of the session $10.00

STUDENT FEES

FEES FOR THE SUPPORT OF STUDENT ORGANIZATIONS.

Regular students (men)	$11.00
Regular students (women)	9.00
Partial students	5.00

DATES OF PAYMENT

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 4 p.m. on the following dates:—

Tuesday, September 5th, to Thursday, September 7th, inclusive,

or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration failing which they become subject to the provisions of the above paragraph.

Fees for students in the Third and Fourth Years of the accelerated course are payable at the Bursar's Office on Tuesday, September 5th, to Thursday, September 7th, inclusive. If desired, these fees may be paid in two instalments, due in September and February 1st, upon payment of the instalment fee of $5.00. If additional instalments are desired special arrangements should be made with the Chief Accountant. Students eligible to receive their diplomas at the Fall Convocation in October must pay all fees before that date, as otherwise the diploma will be withheld.

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees of Canadian and British Empire students are payable in Canadian currency. Fees of students from the United States are payable in U.S. dollars, upon which the current premium of 10% will be allowable.

Domicile will in general determine whether a student pays the British or Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

For further information and for a list of special fees see the General Information Pamphlet included in this Accouncement.

Microscopes

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine. Every effort is made by the University to obtain satisfactory microscopes for the students at a preferred cost, but this cannot be guaranteed.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement (pages 94 to 99).

HEALTH SERVICE

For details of the Health Service and Medical Examination see the General Information Pamphlet included in this Announcement (page 92).

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

a. four years of medical study in the University leading to the degree of M.D., C.M.; and

b. one year of internship in an approved hospital.

OR

one year of further medical study in the Faculty of Medicine of McGill University or at another medical school approved by it.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

There are three sessions of thirty-six weeks each and one session (final session) of thirty-two weeks, all exclusive of examination periods. The sessions usually begin the first Tuesday after the first Monday in September (Labour Day) and continue until the first week of June in the first three years and to the first week in May in the final year.

The academic session is divided into four terms in the first and fourth session and into three terms in the second and third sessions. The minimal period of study for the degree of M.D., C.M., is, therefore, four sessions of study comprising one hundred and forty weeks exclusive of examination periods.

Deceleration of the Medical Course.

The introduction of summer terms to accelerate the graduation of medical students was introduced as a "war measure" in 1942. The class which entered in September, 1942, having embarked on this course, will continue acceleration to the end of their course in July, 1945. As it is anticipated that the needs of the three Medical Services of the Armed Forces will be met satisfactorily without further acceleration, classes admitted in September, 1943, and subsequently, will return to the pre-war schedule outlined in a previous paragraph.

The arrangement of the principal subjects of instruction is usually as follows:

First Session:

Anatomy (Embryology), Biochemistry, Histology, Physiology.

SECOND SESSION:

Physiology, Pharmacology, General Pathology, Bacteriology, Immunology, Parasitology, Laboratory Diagnosis, Medicine, Surgery, Obstetrics.

THIRD SESSION:

Special Pathology, Public Health, Medicine, Surgery, Obstetrics and Gynaecology, Paediatrics, Mental Hygiene, Psychiatry, Therapeutics, Ophthalmology, Otolaryngology, Medical Jurisprudence, Radiology.

FOURTH SESSION:

Medicine,* Surgery,* Obstetrics and Gynaecology, Paediatrics, Ophthalmology, Otolaryngology, Radiology.

*In these subjects are included the following—

Medicine—Dermatology, Psychiatry, Neurology, Clinical Therapeutics.

Surgery—Orthopaedics, Urological Surgery, Neurosurgery, Anaesthesia.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely, major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Bacteriology, Pathology, Public Health, Paediatrics, Medicine, Surgery, Obstetrics and Gynaecology.

Minor examinations include the final examinations in Parasitology, Laboratory Diagnosis, Endocrinology, Immunology, Medical Jurisprudence, Ophthalmology, Otolaryngology, and examinations preliminary to the final examinations in Anatomy, Physiology, Public Health, Pathology, Medicine (including Therapeutics and Psychiatry), Surgery, Obstetrics and Gynaecology and Paediatrics.

A student who fails in any major examination will be required before he sits a supplemental examination to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major

examination, there are definite restrictions as hereinafter set forth, while failure in the supplemental of a minor examination permits the student to carry conditions as are hereinafter laid down.

A student who fails in the supplemental of one (or two) minor examination may proceed with other subjects in the following year, carrying such a subject as a condition, but may not sit any subsequent major examinations until such conditions have been removed, nor may more than two conditions be carried at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A student in the final year may take a supplemental examination in one subject only at the end of the following September, but must present a certificate from the senior professor of the Department concerned that he has taken at least three months' extra tuition in this subject in one of the teaching hospitals of McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in

examinations, except on special recommendation of the Promotion Committee, acting upon the motion of the representatives on the committee of the department concerned.

A student who has been permitted to repeat his year shall be required to make a C+ grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

A schedule of the times of major and minor examinations shall be published as a supplement to these ordinances at the beginning of each academic session.

Examinations, tests, reviews, etc., may be held during the session by any department in its time of instruction, provided that not more than twenty-four (24) hours' notice is given. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know how he is progressing in his studies.

There shall be two Promotion Committees. The first Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Bacteriology, Parasitology, Pathology, and Endocrinology, appointed by the Dean, and the Dean and Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the first and second years. The second Committee shall consist of representatives of the Departments of Pathology, Bacteriology, Public Health, Medicine, Surgery, Obstetrics and Gynaecology and Paediatrics, appointed by the Dean, and the Dean and Secretary ex officio. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the third and fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time, if in the opinion of his instructors he is incompetent.

C. GRADING

At the conclusion of each course, students are graded in five groups, as follows:—

A = Excellent
B = Good
C = Fair
D = Doubtful
E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

The grade assigned to a student is based upon the result of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, MEDALS, PRIZES, AND LOAN FUNDS

Details of fellowships, scholarships, bursaries, medals, and prizes open to undergraduate and graduate students in Medicine, and of the University Loan Fund may be found in the Scholarships Announcement.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University. (See page 491.)

3. No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.

5. He must have attended during at least three sessions of nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.

6. He must also have attended during two terms the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right

of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a licence to practise can be obtained. This has been changed to four years as a war-time measure.

N.B.—In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

Quebec—Dr. J. Paquin, 1896 Dorchester St. West, Montreal.

Ontario—Dr. Robert T. Noble, 566 University Avenue, Toronto, Ont.

New Brunswick—Dr. J. M. Barry, 182 Princess St., Saint John, N.B.

Nova Scotia—Dr. H. L. Scammell, 196 Atlantic St., Halifax, N.S.

Prince Edward Island—Dr. H. D. Johnson, 275 Richmond St., Charlottetown, P.E.I.

Manitoba—Dr. W. G. Campbell, 605 Medical Arts Building, Winnipeg, Man.

Alberta—Dr. George R. Johnson, 336 8th Ave. W., Calgary, Alta.

Saskatchewan—Dr. A. W. Argue, 307 Birks Bldg., Saskatoon, Sask.

British Columbia—Dr. A. J. MacLachlan, 203 Medical-Dental Building, Vancouver, B.C.

The Registrar for Newfoundland is Dr. C. Macpherson, P.O. Box 5121, St. John's, Nfld.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. J. Fenton Argue, 180 Metcalfe Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this

University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

COURSES OF INSTRUCTION

ANATOMY

Robert Reford Professor and Chairman of the Department...C. P. MARTIN
Associate Professor of Histology...H. SELYE
Assistant Professor of Anatomy...D. S. FORSTER
Assistant Professor of Histology...C. P. LEBLOND*
Demonstrators in Anatomy.....E. W. WORKMAN, G. PERRIGARD
Teaching Fellow in Anatomy.....S. M. FRIEDMAN
Sessional Lecturers in Histology..E. BELAND, O. HALL

REQUIRED COURSES

1. GROSS ANATOMY.

Five hours lectures and fifteen hours laboratory work per week during the Autumn, Winter and Spring terms of the First Medical Year.

2. APPLIED ANATOMY.

One hour per week lecture and demonstration during the Winter and Spring terms of the Third Medical Year. This course is conducted mainly by clinicians from the Royal Victoria and Montreal General Hospitals.

(Suspended for duration of the war.)

Text-books:—Gray's "Anatomy" (English Edition) or Cunningham's "Text-Book of Anatomy".

Practical Manuals:—Cunningham's "Manual of Practical Anatomy"; Johnston's "Synopsis of Regional Anatomy".

Optional Texts:—Quain, Piersal, Spalteholz Atlas, Fraser's "Anatomy of the Human Skeleton", Buchanan, Fraser and Robbins, Larsell, Ramson.

*On military service.

Elective Courses

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

3. Advanced Neuro-Anatomy.

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton, assisted by Dr. Kershman. The class is limited to twelve. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

4. Physical Anthropology.

Lectures and practical courses will be arranged for students when required.

MICROSCOPIC ANATOMY

Required Course

5. Histology.

The study of the histological structure of the body. Two hours lectures and nine hours laboratory work per week during the first half of the First Medical Year.

Text-book:—Bailey, "Text-Book of Histology".

Optional Texts:—Cowdry, Lewis, and Bremer, Jordan, Maximow and Bloom (Schafer).

Elective Course

6. Experimental Morphology.

Bi-weekly seminar. In this course current problems and discoveries in Experimental Morphology are discussed by members of the staff and graduate students.

EMBRYOLOGY

Required Course

7. The Study of Human Developmental Anatomy.

One hour per week lecture and three hours per week laboratory work during second half of the First Medical Year.

Text-book:—Arey, "Developmental Anatomy".

Optional Texts:—Jordan, Simkins, Bailey and Millar, Keith, Fraser.

PHYSIOLOGY

Joseph Morley Drake Professor and Chairman of the Department.....H. E. Hoff

Research Professor.....B. P. Babkin

Associate Professor.....N. Giblin

Lecturers.....S. Dworkin, Ronald Grant, Kathleen Terroux

Demonstrator.....Rhoda Grant

Required Courses

1. First Year Lectures.

Tuesday, Thursday, Saturday, at 9 a.m. (beginning in January).

1P. First Year Laboratory.

Nine hours a week, Spring Term.

2. Second Year Lectures.

Monday, Wednesday, Friday, at 9 a.m., Autumn and Winter Terms.

2P. Second Year Laboratory.

Six hours a week and laboratory demonstration. Autumn Term.

Text-books:—

Systematic Physiology—Human.

Howell, Textbook of Physiology; Starling (and Evans), Human Physiology; MacLeod (and Bard), Physiology in Modern Medicine.

Clinical Physiology.

Samson Wright, Applied Physiology; Wiggers, Physiology in Health and Disease; Best and Taylor, Physiological Basis of Medical Practice.

Other Courses

(Available only for students who have obtained Honours in the Required Courses, and by application to the Chairman of the Department.)

3. Advanced Lectures.

3P. Advanced Laboratory.

BIOCHEMISTRY

Professor and Chairman of the Department.....D. L. THOMSON

Assistant Professors.....O. F. DENSTEDT, R. D. H. HEARD

Sessional Lecturer.....H. SOBEL

COURSES OFFERED IN BIOCHEMISTRY

FIRST YEAR.

Biochemistry 1. 50 lectures and 100 hours laboratory work, in the second and third quarters of the first year.

Dr. Thomson.

Text-books:—Bodansky, "Introduction to Physiological Chemistry" (Wiley); Cameron, "Text-book of Biochemistry" (Macmillan); Williams, "Text-book of Biochemistry" (van Nostrand); Schmidt and Allen, "Fundamentals of Biochemistry" (McGraw-Hill).

SECOND YEAR.

Nutrition, 10 lectures, in the first term of the second year

Dr. Thomson.

Biochemistry 2, Endocrinology. 25 lectures, from October to April in the second year.

Dr. Heard.

Other courses offered by the Department are listed in the Announcements of the Faculties of Arts and Science, and of Graduate Studies and Research.

PATHOLOGY

Strathcona Professor and Chairman of the Department.....G. LYMAN DUFF
Associate Professor.....THEO. R. WAUGH
Assistant Professor.....C. Y. YUILE
Lecturers.....R. H. MORE, J. E. PRITCHARD, F. W. WIGLESWORTH*
Demonstrator.....M. B. MACKENZIE
Sessional Demonstrator.....M. A. SIMON
Douglas Fellow.....ELIZABETH L. CORBETT
Fellows.....J. B. CHERRY, D. C. WILSON, M. M. GOLD

REQUIRED COURSES

1. COURSE IN GENERAL PATHOLOGY (Second Year).

   A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms (52 lectures).
   Professor Duff.

   B. Two practical laboratory classes per week during the Spring Term (80 hours practical work).
   Professor Duff, Professor Yuile and Demonstrators.

2. COURSE IN SPECIAL PATHOLOGY (Third Year).

   A. Two lectures per week during the Autumn, Winter and Spring Terms (72 lectures).
   Professor Dufl, Professor Waugh, Professor Yuile and Lecturers.

   B. Two practical laboratory classes per week during the Winter and Spring Terms (96 hours practical work).
   Professor Duff and Staff.

   C. One demonstration of gross pathological material per week to students in small groups of 15 each, during Autumn, Winter and Spring Terms (36 hours.)
   Professor Yuile, Dr. More and Dr. Simon.

3. COURSE IN APPLIED PATHOLOGY (Third and Fourth Years).

   A. Pathological Conferences with demonstrations of current autopsy material. Once a week during the Autumn, Winter and Spring Terms.....Professor Duff.

*On military service.

B. Group instruction in performance of autopsies with demonstrations of autopsy findings, during Autumn, Winter and Spring Terms. Time according to material.
Pathological Institute.....Professor Duff and Dr. More.
Montreal General Hospital.....Dr. Pritchard.
Children's Memorial Hospital.....

Text Books:—MacCallum, A Text-Book of Pathology (Saunders); Karsner, Human Pathology (Lippincott); Boyd, Text Book of Pathology (Lea & Febiger); Muir, Text-Book of Pathology (Arnold).

REFERENCE BOOKS.

General:—Aschoff, Pathologische Anatomie (Gustav Fischer); Bell, Text Book of Pathology (MacMillan); Boyd, Surgical Pathology (Saunders); Boyd, Pathology of Internal Diseases (Lea & Febiger); Forbus, Reaction to Injury (Williams & Wilkins); Reimann, Kaufmann's Pathology (Blakiston); Smith & Gault, Essentials of Pathology (Appleton Century); Wood, Delafield & Prudden's Text-Book of Pathology (Wm. Wood & Co.); Wells, Chemical Pathology (Saunders).

Tumours:—Ewing, Neoplastic Diseases (Saunders); Geschickter & Copeland, Tumors of Bone (American Journal of Cancer); Willis, The Spread of Tumours in the Human Body (Churchill).

Haematopathology:—Naegeli, Blutkrankheiten und Blutdiagnostik (Julius Springer); Whitby & Britton, Disorders of the Blood (Churchill).

Neuropathology:—Biggart, Pathology of the Nervous System (Livingstone); Buzzard and Greenfield, Pathology of the Nervous System (Churchill); Freeman, Neuropathology (Saunders).

Technique:—Farber, The Post Mortem Examination (Charles Thomas); Mallory, Pathological Technique (Saunders); Saphir, Autopsy Diagnosis and Technique (Hoeber).

BACTERIOLOGY AND IMMUNITY

Professor and Chairman.....E. G. D. MURRAY**
Associate Professor and Acting Chairman.....FREDERICK SMITH
Assistant Professors.....T. E. ROY*, C. D. KELLY, D. S. FLEMING
Lecturer.....W. H. MATHEWS*
Demonstrators.....D. H. STARKEY*, N. W. MCLELLAN*, G. G. KALZ, M. F. HOWIE

REQUIRED COURSES

All lectures and laboratory courses are given in the Department of Bacteriology (Pathological Institute).

*On military service.
**On leave of absence.

COURSE 1. ELEMENTARY MEDICAL BACTERIOLOGY AND IMMUNITY. Three lectures and 6 hours laboratory work a week. First term II.

COURSE 1. S. ELEMENTARY GENERAL BACTERIOLOGY FOR ARTS AND SCIENCE STUDENTS. III.

COURSE 2. APPLIED MEDICAL BACTERIOLOGY AND IMMUNITY AND THE PROCESSES OF INFECTIOUS DISEASES. Second term II.

Two lectures and demonstrations a week. Second term.

COURSE 3. BACTERIOLOGY AND IMMUNITY FOR HONOURS B.Sc.

Six lectures and 12 hours laboratory work a week throughout the year. IX.

(Full details of the courses can be obtained by application to the Registrar).

Text-books:—Hans Zinsser and G. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir and J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett and James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie and J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere Tindall & Cox); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley and G. S. Wilson, The Principles of Bacteriology and Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Precis de Microscopie (Masson & Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins); E. O. Jordan and W. Burrows, Text-Book of Bacteriology (Saunders); Frederick P. Gay, Agents of Disease and Host Resistance (C. C. Thomas); N. P. Sherwood, "Immunology" (Mosby Co.); H. Zinsser, J. F. Enders, L. D. Fothergill, "Immunity Principles and Application in Medicine and Public Health" (Macmillan Co.); R. W. Fairbrother, A Text-book of Medical Bacteriology (W. Heinemam, Ltd.).

PARASITOLOGY

Professor and Chairman of the Department.....T. W. M. CAMERON
Lecturer.....IVAN W. PARNELL*
Sessional Lecturer.....MAJOR D. C. BEWS

REQUIRED COURSE

SECOND YEAR.

2A. HUMAN PARASITOLOGY.—This course on the animal parasites of man (protozoa, helminths and arthropods) comprises about 45 hours of instruction. Special attention is given to parasites found in North America, their diagnosis, bionomics and pathogenesis. In the practical class, each student examines all the important species as well as the lesions caused by them.

*On Military Service.

First term—Two lectures and one laboratory period per week.

ELECTIVE COURSES.—The Department not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research).

Text-book:—Cameron, T. W. M., "The Parasites of Man in Temperate Climates."

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Strathcona Professor and Chairman of the Department.....

Associate Professor and Acting Chairman.....R. ST. J. MACDONALD

Assistant Professor.....FRANK G. PEDLEY**

Lecturer.....R. VANCE WARD

The instruction in Public Health and Preventive Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine.

The importance of Public Health and Preventive Medicine is kept before the student throughout his course. From an historical background are developed the needs and opportunities for preventive medicine, and its social implications.

The Department aims to correlate the teaching of the preventive aspects of medicine with the teaching of other departments in their special fields. In addition, those phases of the subject that are not included elsewhere are covered, such as water, milk and food supplies, public health administration, hygiene of the school child and industrial hygiene.

The hygiene of the child of school age includes, for consideration, the chief points of a school health service, its scope, and the duties of the School Medical Officer, a post frequently undertaken by the general practitioner.

Industrial Hygiene deals with the application of the principles of preventive medicine to industry. The various factors which influence the health of work-people are discussed, and the means which may be taken to supervise their health and safety are considered.

**On leave of absence.

A health study of the student's home town, or some other place acceptable to the Department, is required before the beginning of the final year. This study calls for individual field work by each student. This requirement has been waived, however, for the duration of the accelerated course, and has been replaced by a practical problem in public health and preventive medicine on which each student is asked to report.

Required Courses

First Year.

1A. *Public Health*—3 lectures:—Development of the modern public health program, and results; problems of public health and medical care.....Professor Macdonald and Dr. Ward.

Second Year.

2A. *Public Health Organization*—5 lectures:—International, national, local and voluntary health organization.
Professor Macdonald and Dr. Ward.

Third Year.

3A. *Hygiene*—11 lectures:—Maternal, Infant, Pre-School, School and Industrial Hygiene.
Professor Macdonald and Dr. Ward.

3C. *Epidemiology and Vital Statistics*—7 lectures.
Professor Macdonald and Dr. Ward.

3D. *Sanitation*—6 lectures.....Professor Macdonald.

3E. *Preventive Medicine, Demonstrations*—6 periods
Chandler Health Centre.

Text-books and reference books:—

The General Field—Mustard; Rosenau.

Industrial Hygiene—The Health of the Industrial Worker, Collis and Greenwood; Industrial Health, Hayhurst, Emery and Kober; Industrial Poisons in the United States, Hamilton.

Mental Hygiene—The Mental Hygiene of Childhood, White.

PHARMACOLOGY AND THERAPEUTICS

Professor and Chairman of the Department.....R. L. STEHLE
Associate Professor of Therapeutics.....D. S. LEWIS
Associate Professor of Pharmacology.....K. I. MELVILLE
Lecturer in Therapeutics.....W. DE M. SCRIVER
Lecturer in Anaesthesia.....WESLEY BOURNE
Lecturer in Pharmacology.....A. M. FRASER*

PHARMACOLOGY

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

REQUIRED COURSES

1A. PHARMACOLOGY. The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Three lectures a week during the Winter Term suplemented by one conference and one demonstration a week. Second Year.

The conference groups are limited to four students each.

Professors Stehle and Melville.

1B. PHARMACOLOGICAL LABORATORY. The experiments are chosen to illustrate the lecture course.

Two periods (six hours) a week during the Winter Term. Second Year. Professors Stehle and Melville.

THERAPEUTICS

The teaching of therapeutics will be closely linked with that of medicine.

REQUIRED COURSES

2. PHARMACY AND PRESCRIPTION WRITING. Five lectures and five laboratory periods. Dr. Scriver.

3A. THERAPEUTICS: Didactic Instruction. A series of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

*On Military Service.

3B. THERAPEUTICS: Theatre Lectures. Fifteen clinical lectures to be given in the hospitals during the year in conjunction with the teaching of the Department of Medicine. Dr. Lewis and Associates.

Text-books in Pharmacology. Cushny, Sollmann, Clark. *Text-books in Therapeutics,* Beckman, Lyon, Reiman, Goodman and Gilman.

OPTIONS

Suitably prepared students may undertake research at any time.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

MEDICINE

Professor and Chairman of the Department . . . . . JONATHAN C. MEAKINS

Professor . . . . . L. C. MONTGOMERY*

Associate Professors . . . . . G. R. BROW, E. H. MASON; E. S. MILLS, I. M. RABINOWITCH

Assistant Professors . . . . . C. C. BIRCHARD, J. S. L. BROWNE, J. KEITH GORDON, J. KAUFMAN, D. S. LEWIS, C. F. MOFFATT, W. DEM. SCRIVER.

Lecturers . . . . . C. R. BOURNE, NEIL FEENEY, A. F. FOWLER, C. W. FULLERTON, A. T. HENDERSON, W. R. KENNEDY, J. F. MCINTOSH, J. H. PALMER*, COLIN SUTHERLAND, C. J. TIDMARSH, R. VANCE WARD, R. H. M. HARDISTY, D. W. MCKECHNIE — Post-retirement

Demonstrators . . . . . L. J. ADAMS, C. B. BARKER, D. BARZA, R. C. BENNETTS, J. O. W. BRABANDER, HUGH BURKE, B. R. CUDDIHY, W. W. EAKIN, GUY HAMEL, M. A. HICKEY, C. R. JOYCE, H. E. MACDERMOT, J. F. MACIVER, W. G. MCLELLAN, W. F. MCMARTIN, D. L. MENDEL, J. G. MUNROE, M. NOTKIN, S. ORTENBERG, S. L. RICHARDSON, H. N. SEGALL, C. B. SMITH, F. M. SMITH.

*On active service.

THE CURRICULUM

FOREWORD:

The object of the following course is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

The University lectures and clinical lectures are open to students of all years. The final examinations may cover any portion of the realm of internal medicine and its various branches of which the examiners may deem it proper that a graduating student should be cognizant.

REQUIRED COURSES.

SECOND YEAR

Course II 1—*Integration of Physiology, Biochemistry and Anatomy with Medicine.*

Time—Last term of Second Year.

Place—Medical Building.

Subject Material—

1. Diseases of Lungs.
2. Diseases of Heart, Kidneys, Blood Vessels.
3. Diseases of G.I. Tract.
4. Diseases of Liver, Speen, and Blood.
5. Diseases of Metabolism.
6. Diseases of Ductless Glands.
7. Clinical Neurophysiology.

Course II 2—*A Practical Course in Clinical Methods.*

Time—Last term of Second Year.

Place—Outpatient Dept. of the Royal Victoria and the Montreal General Hospitals.

Subject—Practical instruction 4 hours a week on Normal Physical Signs.

Course II 3—*Laboratory Diagnosis.*

Time—Last term of Second Year.

Place—Medical Building.

Subject—Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Dr. McIntosh and Assistants.

THIRD YEAR

Course III 4—*Amphitheatre Clinics in General Medicine.*

Time—Twice weekly throughout year.

Place—Royal Victoria and the Montreal General Hospitals.

Subject—Demonstration and discussion of cases illustrating certain disease processes.

Course III 5—*Bedside Clinics and Practical Demonstrations.*

Time—Twice weekly during the medical trimester.

Place—Wards of the Royal Victoria and the Montreal General Hospitals.

Course III 6—*Clinico-Pathological Conference.*

Time—Weekly during the medical trimester.

Place—The Royal Victoria and the Montreal General Hospitals.

Course III 7—*Case Reporting.*

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope.

Course III 8—*A Practical Course in Diseases of Metabolism.*

Time—Weekly during the medical Trimester.

Place—Royal Victoria and the Montreal General Hospitals.

Subject—This course consists of weekly Ward Rounds in the two Hospitals.

In addition to the above courses General Ward Rounds are held once a week at each Hospital for students reporting Medicine.

FOURTH YEAR

Course IV 9—*Amphitheatre Clinics in General Medicine.*

Time—Once a week throughout year.

Place—Alternately at the Royal Victoria and the Montreal General Hospitals.

Subject—Demonstration and discussion of cases illustrating certain disease processes.

Course IV 10—*Bedside Clinics and Practical Demonstration.*
Time—Twice weekly during medical quarter.
Place—Wards of the Royal Victoria and the Montreal Genera Hospitals.

Course IV 11—*Clinico-Pathological Conference.*
Time—Once a week during medical quarter.
Place—Royal Victoria and the Montreal General Hospitals.

Course IV 12—*A Practical Course in Diseases of Metabolism.*
Time—Weekly during the medical quarter.
Place—Royal Victoria and the Montreal General Hospitals.
Subject—This course consists of weekly Ward Rounds in the two Hospitals.

Course IV 13—*Clinical Therapeutics—practical instruction.*
Time—Once a week for one quarter.
Place—Royal Victoria and the Montreal General Hospitals.

Course IV 14—*A Course of Lectures in Medicine and Specialties.*
Time—Four periods a week throughout year.
Place—Medical Building and the Montreal Neurological Institute.
Subject—Lectures in General Medicine and Allied Specialties.

In addition to the above courses General Ward Rounds are held once a week at each Hospital for students reporting Medicine.

From time to time special Elective Courses are given at the Hospitals in such subjects as Hæmatology, Cardiology, etc.

Text and Reference Books

Clinical Methods and Physical Diagnosis:—Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Major, "Physical Diagnosis"; Murray, "Examination of the Patient"; Gradwohl, "Clinical Laboratory Methods and Diagnosis"; Hutchison and Hunter, "Clinical Methods"; Cabot & Adams, "Physical Diagnosis"; Department of Medicine, McGill University, "Guide to Medical Case Reporting".

General Medicine:—McLeod, "Physiology in Modern Medicine"; Best and Taylor, "Physiological Basis in Medical Practice"; Meakins, "Practice of Medicine"; Cecil, "Text Book of Medicine"; Davis, "Cyclopedia of Medicine"; Rolleston, "The British Encyclopaedia of Medical Practice"; Lewis, "Diseases of the Heart"; White, "Heart Disease"; Norrs and Landis, "Diseases of the Chest"; Eusterman and Balfour, "Stomach and Duodenum"; Hurst and Stuart, "Gastric and Duodenal Ulcer"; Joslin, "Diabetic Manual"; "Treatment of Diabetes Mellitus"; McLester, "Nutrition and Diet in Health and Disease"; Lusk, "Science of Nutrition"; Peters and Van Slyke, "Quantitative Clinical Chemistry"; Vol. 1, Interpretations; DuBois, "Basal Metabolism in Health and Disease"; Kurzrok, "The Endocrines in Obstetrics and Gynæcology"; Clendening, "Methods of Treatment"; "Pharmocopoea of the Teaching Hospitals".

General Medicine:—Smith & Gault, "Essentials of Pathology"; Yates, "Fundamentals of Internal Medicine"; McCombs, "Internal Medicine in General Practice"; Christian, "Osler's PRINCIPLES AND PRACTICE OF MEDICINE", 15th edition.

Psychiatry:—White, "Outlines of Psychiatry"; Henderson and Gillespie, "A Text of Psychiatry" (1936); Bernard Hart, "The Psychology of Insanity".

Neurology:—Brock, "The Basis of Clinical Neurology"; Cobb, "A Preface to Nervous Diseases"; Grinker, "Neurology".

Dermatology:—Walker, "Introduction to Dermatology"; MacLeod, "Diseases of the Skin"; Sutton and Sutton, "Diseases of the Skin"; Ormsby, "Diseases of the Skin".

TOXICOLOGY AND MEDICAL JURISPRUDENCE

A series of twenty-four lectures and demonstrations.

Assoc. Professor Rabinowitch.

TOXICOLOGY: 1. DEFINITIONS; 2. OCCURRENCE OF POISONING—Accidental. (Food. Industrial. Clothes and Cosmetics. Patent Medicines. Therapeutic. Other). Suicidal. Homicidal. 3. MODE OF ACTION OF POISONS: Modifying Causes—Form. Amount. Mode of Entry into Body. Age. Habit. Sleep. Physical Condition of Subject. Idiosyncracy. Other. 4. CLASSIFICATION OF POISONS. 5. ACUTE POISONING: Diagnosis—Similarity Between Poisoning and Disease. General Evidence of Poisoning. Rules for Diagnosis. TREATMENT: Principles. General Treatment. Antidotes—Limitations. 6. LEGAL: Control of Poisons—Dangerous Drugs Acts and Regulations. Relation of Doctor to Pharmacist. Administration of Noxious Drugs. Narcotics. 7. MEDICO-LEGAL CONSIDERATIONS IN CASES OF POISONING: Accident. Suicide. Murder. Duty of Doctor—In Suspected Cases. In Known Cases. Post-mortem examinations in Cases of Poisoning.

MEDICAL JURISPRUDENCE: A. 1. INTRODUCTION: Definitions—Law. Medicine. Forensic Medicine. 2. LEGAL POSITION OF DOCTORS. 3. OBLIGATION OF DOCTOR TO THE STATE: Medical Notifications and Certifications—Births. Stillbirths. Infectious Diseases. Deaths. Other. 4. RESPONSIBILITIES TO PATIENT: Implied and Expressed Contracts. Professional Secrecy. Privileged Communications. Medico-legal Aspects of Physical Examinations—Consent. 5. MALPRACTICE: Civil. Criminal. Negligence. Contributory Negligence. Errors of Commission. Consultations. Responsibility for Assistants. "Reasonable Care and Judgment". B. LEGAL CRIMINAL PROCEDURE: 1. INVESTIGATION OF SUDDEN DEATHS AND DEATHS FROM UNNATURAL CAUSES—Coroner's Court. 2. MEDICAL EVIDENCE IN COURTS OF LAW: *a.* Documentary.

b. Oral. *c*. Experimental. 3. General Rules of Conduct for Medical Witnesses: Professional Secrecy. Privileged Communications. Precognitions. Fees. C. Medico-Legal Aspects of Death: 1. Signs of Death. 2. Apparent Death. 3. Proximate Causes of Death. 4. Sudden Death. 5. Presumption of Death—Presumption of Survivorship. 6. Medico-Legal Forms of Death. 7. Post-Mortem Examinations for Medico-Legal Purposes. 8. Identification of the Dead. D. Personal Identity in its Medico-Legal Bearings: For Civil Purposes. For Criminal Purposes. Mistaken Identity. E. Blood Stains: Medico-legal information from Blood Stains. Blood Grouping. F. Wounds: 1. Legal Definition. 2. Types. 3. Medico-legal Examination of a Wounded Person. 4. Causes of Death from Wounds. 5. Wounds after Death. G. Medico-Legal Aspects of Pregnancy: H. Abortion: Duty of Doctor in Cases of Suspected Criminal Abortion and in Cases of Known Criminal Abortion. I. Impotence and Sterility. J. Rape. K. Infanticide. L. Mental Unsoundness: Medical Certificate of the Insane. Protection of Certifying Physicians. Admission of Voluntary Patients to Institutions for the Insane. M. Drunkenness: 1. Diagnosis: Clinical. Chemical. 2. Medico-legal Aspects—Civil. Criminal.

Text and Reference Books:—Buchanan's Text Book of Forensic Medicine and Toxicology. Medical Jurisprudence and Toxicology—Glaister. Forensic Medicine—Kerr. Forensic Medicine—Littlejohn. Forensic Medicine and Toxicology—F. J. Smith. Forensic Medicine—Sydney Smith. Recent Advances in Forensic Medicine—Sydney Smith and Glaister. Taylor's Principles and Practice of Medical Jurisprudence. A Synopsis of Forensic Medicine and Toxicology—Thomas. Legal Medicine and Toxicology—Webster.

DERMATOLOGY

Clinical Professors.....J. F. Burgess (On leave of absence)
L. P. Ereaux

Lecturers.....B. Usher
F. Kalz

CLINICAL THERAPEUTICS

Associate Professor.....D. S. Lewis

Lecturers.....C. W. Fullerton
W. de M. Scriver
Guy Fisk (*Physiotherapy*)
Norman Brown (*Physiotherapy*)

PSYCHIATRY

Professor and Chairman of the Department . . . . . D. EWEN CAMERON

Clinical Professor . . . . . C. A. PORTEOUS

Assistant Professors . . . . . M. PRADOS, G. E. REED, B. SILVERMAN

Lecturer . . . . . KARL STERN

Sessional Lecturers . . . . . BRESLIN, LARIVIERE

Demonstrators . . . . . T. E. DANCEY, M. GRAY*, H. LEHMAN, A. A. McKAY, W. D. ROSS*, C. SKITCH

FOREWORD

Instruction in human behavior is given in all four years. Emphasis is placed upon the personality factor in all forms of illness. Consequently, teaching is carried on in close relation with other aspects of medicine. It is planned to take full advantage of the teaching facilities not only of the Institute but of the wards and out-patient departments of the Royal Victoria Hospital and of the Montreal General Hospital.

Special prominence is given to those psychological and personality situations which the student will meet after graduation in his day to day teaching. Instruction in military psychiatry and in child psychatry is given in the final years.

REQUIRED COURSES

1. PSYCHOBIOLOGY—A course of twelve lectures will be given in the first year. In this course, the various aspects of human behavior will be stressed, with special reference to their relationship to medicine. Dr. Cameron.

2. PSYCHIATRY—Eighteen lectures in the basis behavioral disorders will be given. During the second year both those disorders which require hospitalization and those which can be dealt with on an ambulant basis will be considered. Dr. Reed and Assistants.

3. A course of eight lectures will be given on child psychiatry during the fourth year. Dr. Silverman.

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*On Military Service.

4. Clinical demonstrations and ward rounds will be held during the fourth year. Certain of these will be devoted to military psychiatry.
Dr. Breslin and Dr. Lariviere.

5. Others will deal with psychosomatic problems and early manifestations of nervous and mental illness.
Drs. Cameron, Reed, Stern and Assistants.

6. Out-Patient instruction will be given in the Psychiatric Out-Patient Department. Dr. M. Prados.

7. Instruction in Out-Patient child psychiatry will be given at the Mental Hygiene Institute. Dr. Silverman.

PAEDIATRICS

Professor and Chairman of the Department.....R. R. STRUTHERS**
Associate Professor.....S. GRAHAM ROSS
Assistant Professors.....A. GOLDBLOOM, L. LINDSAY
Lecturers.....A. K. GEDDES*, ALAN ROSS*, JESSIE BOYD SCRIVER
Demonstrators.....B. BENJAMIN, J. H. O'NEILL, S. J. USHER, E. M. WORDEN
Sessional Demonstrator.....C. STEWART

REQUIRED COURSES

1. LECTURE COURSE: A series of lectures on paediatrics, intended as an introduction to various aspects of Diseases of Children—Hygiene—Nutrition — Infections — Family Relationships—Infectious Diseases and Preventive Medicine.

   Once a week during the Autumn, Winter, and Spring terms (as announced) at the Medical Building or at the Children's Memorial Hospital. Professor Struthers and Assistants.

2. DISEASES OF THE NEWBORN: Royal Victoria Maternity Pavilion. A weekly clinic-demonstration to groups of students of the Third Year during their Obstetrics Trimester.
Professors Ross, Drs. Scriver and Worden.

3. CLINICAL PAEDIATRICS: During the final year the class is divided into groups, each group devoting five weeks to the study of the diseases of childhood, including: (a) General Paediatrics—Children's

*On Military Service.
**On Leave of Absence.

Memorial Hospital. Daily bedside clinics by members of the department during the five week period spent by each student in attendance at the Children's Memorial Hospital—presentation of cases—discussion of case reports—ward rounds and staff rounds.

Staff Members.

(b) Normal Infant Feeding, Care and Development and Preventive Paediatrics. Immunization Procedures. Drs. Scriver, Usher, Benjamin. Child Welfare Association Clinics.

(c) *Infectious Diseases:* A series of demonstrations to groups of students on the common infectious diseases, is given at the Alexandra Hospital.

Drs. Worden, C. Stewart.

Text-books: Holt and McIntosh, "Diseases of Infancy and Childhood"; Griffith and Mitchell "Diseases of Infants and Children"; Porter and Carter, "Management of the Sick Infant and Child"; Brown and Tisdall, "Common Procedures in Paediatrics".

Reference Books: Brenneman, "Practice of Paediatrics" (4 volumes); Parsons and Barling, "Diseases of Infancy and Childhood" (2 volumes); Langdon, "Home Guidance for Young Children"; Abt's "Paediatrics" (8 volumes); Still, "Common Disorders and Diseases of Childhood"; John Thomson, "Clinical Study and Treatment of Sick Children".

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery, Chairman of Department	WILDER PENFIELD
Associate Professor of Neurology	COLIN RUSSEL
Associate Professor of Neurosurgery	WILLIAM CONE
Clinical Professor of Neurology	F. H. MACKAY
Assistant Professors of Neurology	DONALD MCEACHERN* FRANCIS L. MCNAUGHTON ARTHUR W. YOUNG
Assistant Professor of Neurosurgery	ARTHUR ELVIDGE
Assistant Professor of Neurological Radiology	ARTHUR CHILDE
Assistant Professor of Neurophysiology	HERBERT JASPER*
Lecturers in Neurology	JOHN KERSHMAN* W. D. ROSS* NORMAN VINER
Lecturer in Neuropathology	MURTON SHAVER
Demonstrators in Neurosurgery	GUY K. MORTON* O. W. STEWART*
Demonstrator in Neurophysiology	ANDRÉ CIPRIANI*
Demonstrator in Neurosurgery	ARTHUR A. WARD, Jr.
Research Fellows at Montreal Neurological Institute	CHEN CHAO-JEN M. BORSTEIN ERIC PETERSON* H. F. STEELMAN C. VILLAVICENCIO W. FEINDEL C. MUSHATT

*On Military Service.

Courses Offered in Neurology and Neurosurgery

Second Year.

2A. *Clinical Neuroanatomy and Neurophysiology.* 4 lectures. Dept. of Medicine. Dr. McNaughton.

2B. *Physical Examination of the Nervous System.* 2 theatre clinics. Dept. of Medicine. (1 at M.G.H., 1 at R.V.H.). Prof. F. H. Mackay.

Third Year.

3A. *Survey of Neurology and Neurosurgery.* 8 lectures, Dept. of Medicine. 8 lectures, Dept. of Surgery. M.N.I. amphitheatre. Professor Penfield and Professor Russel.

3B. *Neuropathology.* 8 lectures, Dept. of Pathology. Pathology amphitheatre. Professor Cone and Dr. Murton Shaver.

Fourth Year.

4A. *Neurological and Neurosurgical Clinics.* 6 theatre clinics, Dept. of Medicine, 6 theatre clinics, Dept. of Surgery. M.N.I. amphitheatre. Professor Penfield, Professor Russel, Professor Cone, Professor Mackay and staff.

4B-1 *Neurological O.P.D.* R.V.H. Outpatient Department. Monday and Thursday afternoons. Professor Russel and assistants.

4C-1 *Neurology Ward Classes.* Dept. of Medicine. Wednesdays. M.N.I (R.V.H. group). Professor Russel.

4B-2 & 4C-2 *Combined Neurological O.P.D. and Ward Classes.* M.G.H. Monday and Friday afternoons. (M.G.H. group). Prof. F. H. Mackay and assistants.

4D-1 *Neurosurgery Ward Classes.* Dept. of Surgery. M.N.I. (R.V.H. group). Dr. Cone.

4D-2 *Neurosurgery Ward Classes.* Dept. of Surgery M.N.I. (M.G.H. group). Dr. Elvidge.

Elective Courses.

I. *Clinics on Diseases of the Nervous System.* R.V.H. Outpatient amphitheatre (if requested), Tuesdays 3-4 o'clock. Professor Penfield.

II. *Contribution of the Basic Sciences to Neurology.* M.N.I. Tuesdays 5.30 p.m. Various members of the Department of Neurology and Neurosurgery, organized by Dr. McNaughton.

III. *Advanced Neuroanatomy* (Anatomy 3). Construction of Model of Human Brain. M.N.I. Monday and Tuesday 8-10 p.m. (Registration limited to 10). Drs. McNaughton and Kershman.

SURGERY

Professor and Chairman of the Department of Surgery.....FRASER B. GURD

Professor.....F. E. McKENTY

Associate Professors.....J. C. ARMOUR, J. G. W. JOHNSON, G. GAVIN MILLER, D. E. ROSS.

Assistant Professors.....R. R. FITZGERALD, C. A. McINTOSH*, L. H. McKIM*, A. ROSS, A. J. STEWART, H. L. DAWSON, A. L. WILKIE, H. M. ELDER*, F. J. TEES

Lecturers.....C. LUKE*, S. J. MARTIN, H. F. MOSELEY, P. G. ROWE, S. G. BAXTER, H. G. PRETTY

Demonstrator.....E. M. COOPER

Demonstrators.....F. D. ACKMAN, H. A. BAXTER, E. H. CAYFORD, H. S. DOLAN, G. D. LITTLE, C. K. McLEOD, J. C. SUTTON

ORTHOPAEDIC SURGERY

Lecturer.....N. T. WILLIAMSON

ANAESTHESIA

Lecturers.....WESLEY BOURNE, M. D. LEIGH, C. C. STEWART, F. A. H. WILKINSON

Demonstrator.....A. M. TORRIE

UROLOGY

Clinical Professors.....R. E. POWELL, E. S. SMITH

Lecturer.....M. I. SENG

Demonstrators.....A. B. HAWTHORNE, A. M. J. TANNEY

SECOND YEAR.

2A. *Clinical Urology.*

Group classes, 4 demonstrations, in which instruction in methods of Urological examination is given in the Montreal General and Royal Victoria Hospitals.

(See Surgery—2B).

*On Military Service.

FOURTH YEAR.

4A. *Survey of Urology.* 12 lectures.
In the Surgical trimester:—

4B. *Urological Clinics*—Ward Classes.
The Montreal General Hospital—2 classes a week.
Royal Victoria Hospital—3 classes a week.

4C. *Case Reporting in Urological Wards.*

SURGERY

Instruction in surgery and the surgical specialties is given in the form of didactic lectures, amphitheatre clinics and demonstrations and group teaching in the wards and out-patient department of the teaching hospitals. The course is graded. The student must qualify in each year before proceeding to the next.

REQUIRED COURSES

SECOND YEAR.

Surgical teaching begins in the spring term (16 weeks) of the Second Year. In this year special attention is directed to the instruction and training of the student, in proper methods of physical examination, from the surgical point of view. At the same time, instruction is given in methods of surgical technique, and the student is introduced to the simpler types of fractures and dislocations.

Courses.

2A. *Amphitheatre clinics*, in the Montreal General Hospital and Royal Victoria Hospital, two days a week during the term.

2B. *Group classes* in the wards of the Montreal General and Royal Victoria Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

THIRD YEAR.

The student comes into a more intimate contact with the patients, and in the surgical trimester is assigned cases, writes case reports, acts as dresser, and assists at operations.

Courses.

3A. *Amphitheatre Clinics and Demonstrations* in the Montreal General and Royal Victoria Hospitals, two days a week throughout the year.

3B. *Group Ward classes* in the Montreal General and the Royal Victoria Hospitals, once a week during the term.

3C. *Case Reporting.* Patients are allotted to students who act as reporters, dressers, and assistants at operations.

3D. *Military Lectures.* A course of 8 lectures on War Surgery, one evening a week.

FOURTH YEAR.

Courses.

4A. *Amphitheatre Clinics and Demonstrations* in the Montreal General and Royal Victoria Hospitals alternately, once a week throughout term.

4B. *Group ward classes* in the Montreal General and Royal Victoria Hospitals, twice a week during the term.

4C. *Case Reporting.*

4D. *Clinico-Pathological conferences* once a week during the term, jointly with the Department of Pathology, at the Montreal General and Royal Victoria Hospitals.

4E. *Military Lectures.* A course of 8 lectures on War Surgery, one evening a week.

SURGICAL DISEASES OF CHILDREN.—Instruction in the surgical diseases of children is given during the trimester in which the students are assigned to paediatrics at the Children's Memorial Hospital, as follows:—

4A. *Amphitheatre Clinics* once a week throughout trimester.

4B. *Group Ward Classes* three times a week throughout trimester.

ORTHOPAEDIC SURGERY

FOURTH YEAR COURSES.

4A. *Clinical Lectures.* A course of 8 lectures given at the University.

4B. *Ward Classes* at the Montreal General and Royal Victoria Hospitals, once a week during the surgical trimester.

4C. *Group Classes in the Out-door Department* of the Montreal General and Royal Victoria Hospitals, twice a week during the surgical trimester.

ANAESTHESIA.—Instruction in anaesthesia is given by the Department of Pharmacology and Clinical Therapeutics. Students are given practical instruction in the administration of anaesthetics, during their surgical trimesters in the Third and Fourth Years at the Montreal General and Royal Victoria Hospitals.

Close correlation is maintained with the Departments of Anatomy and Physiology as well as with the concurrent instruction in Medicine, Pathology and Bacteriology.

The course is graded and the student is required to qualify in each grade before he is permitted to advance to succeeding grades.

Text-books:—

1. *General Surgery:* John Homans, "A Text-book of Surgery"; Choyce, C. C., "A System of Surgery"; Gask and Wilson, "Surgery"; Hamilton Bailey, "Demonstrations of Physical Signs in Clinical Surgery"; Christopher Cole and Elman; Romanis and Mitchener; Handfield, Jones and Porrett, "The Essentials of Modern Surgery"; Rose and Carless, "Manual of Surgery"; Berman's Synopsis of Principles of Surgery; Pack and Livingston's "Treatment of Carcinoma"; Christopher's "Minor Surgery".

2. *Emergency Surgery:* Sluss, John W., "Manual of Emergency Surgery"; Cole & Puestow, "Advanced First Aid".

3. *Surgical Anatomy:* McGregor, "Synopsis of Surgical Anatomy"; Treves, "Surgical Applied Anatomy".

4. *Fractures and Dislocations:* Scudder, Charles L., "Treatment of Fractures"; Wilson and Cochrane, "Fractures and Dislocations"; Magnuson's "Fractures"; Stimson's "Manual of Fractures and Dislocations"; Wilson's "Management of Fractures"; Key and Conwell's "Fractures and Dislocations"; Watson Jones "Fractures and other Bone and Joint Injuries"; Key and Conwell, "Fractures, Dislocations and Sprains".

5. *Case Reporting:* White, J. Renfrew, "The Clinical Examination of Surgical Cases"; Geckeler's Fractures and Dislocations.

6. *Urology:* Eisendrath and Rolnick's "Urology"; Herman's "Practice of Urology"; Hinman's "Principles and Practice of Urology"; Keyes and Ferguson's "Urology"; Young's "Practice of Urology"; Le Comte's Manual of Urology.

7. *Orthopaedic Surgery:* Whitman's "Orthopædic Surgery"; Jones, "Orthopædic Surgery of Injuries"; Jones and Lovett, "Orthopædic Surgery"; Mercer's "Orthopædic Surgery"; Willis Campbell's "Orthopædic Operations"; Sever's "Handbook of Operative Surgery"; Steindler's "Orthopædic Operations".

OBSTETRICS AND GYNÆCOLOGY

Professor and Chairman of the Department..... J. R. Fraser

Associate Professors..... A. D. Campbell, N. W. Philpott

Clinical Professor..... J. W. Duncan

Assistant Professor..... W. A. G. Bauld

Lecturers..... J. S. Henry, P. J. Kearns, G. C. Melhado, Ivan Patrick, Eleanor Percival

Demonstrators..... K. T. MacFarlane, C. V. Ward*, S. E. Ayre

Assistant Demonstrator..... G. B. Maughan*

A. A. Brown Fellow.....

Teaching Fellow..... S. Gold

Sessional Lecturers..... George Strean, G. T. Altimas

The entire course is arranged on the basis of imparting a practical knowledge of Obstetrics, Gynaecology and the Care of the New-born. Throughout all trimesters the value of intimate contact with the patient in the normal and the pathological state is stressed.

The privilege of serving as an interne in the hospital for two weeks treating the patients from the time of admission till discharge from hospital is an ideal arrangement. Rooms are provided in the Women's Pavilion where the students may reside, in groups of six, during this period.

OBSTETRICS

Required Courses

Third Year.

1. Thirty-five Clinical Conferences for all Third Year students, Wednesday 12.45-1.45 p.m., illustrating the more important Obstetrical conditions. Prof. Fraser.
2. Thirty-five lectures relative to the anatomy and physiology of the pelvis as well as a general introduction to Obstetrics and associated Gynaecological lesions. Prof. Philpott.

*On military service.

3. Thirty demonstrations are given in Obstetrical palpation and on the manikin, with the aid of models, diagrams, lantern slides and moving pictures. Given by Members of the Staff.

4. Clinical instruction for twelve periods in case-rooms and wards. Given by Members of the Staff.

5. Six lectures concerning early development of the embryo and the placenta. Given by Members of the Staff.

6. Six lectures or demonstration periods relative to the care of the New-born. Prof. Struthers and Prof. Ross.

FOURTH YEAR.

1. Thirty-five Clinical Conferences for all Fourth Year students, Wednesday, 12.45-1.45 p.m., illustrating the more important Obstetrical conditions. Prof. Fraser.

2. Staff Conference held once a week is arranged to give a complete account of the work of the hospital. This is attended by those students in the current Obstetrical Trimester. Prof. Philpott.

3. Fifteen lecture demonstrations are held in the Lecture Theatre on the following subjects:—

Normal Labour.....Prof. Philpott.
Dystocia.....Dr. Melhado.
Toxaemia of Pregnancy.....Dr. Foote.
Haemorrhage.....Prof. Henry.
Puerperal Infection.....Prof. Campbell.

4. Special Theatre Clinic conducted each Saturday at 9 a.m. to 10 a.m. for the term group. Prof. Campbell.

5. Fourteen instruction periods including conduct of pregnancy, labour and puerperium in Out-patient Department, Case-rooms and Wards. Given by Senior Members of Staff.

GYNÆCOLOGY

1. Theatre clinics and bedside instruction in the Royal Victoria and Montreal General Hospitals. Professors Fraser, Campbell and Staff.

2. A special course on Gynæcological Pathology. Dr. P. J. Kearns.

3. Methods of Gynæcological examination, diagnosis and treatment in the outdoor departments.

4. A special course of instruction, once a week, through the year in the cancer clinic on methods of diagnosis and treatment of cancer, dealing especially with Radium and X-Ray. Prof. Bauld and Staff.

Text and Reference Books

Obstetrics.

(1) De Lee	Principles and Practice of Obstetrics.
(2) Stander	Text book on Obstetrics.
(3) Ten Teachers	Midwifery.
(4) Harper	Clinical Obstetrics.
(5) Bourne	Synopsis of Midwifery and Gynæcology.
(6) Johnson, R. W.	Text book of Midwifery.
(7) Bland	Practice of Obstetrics.
(8) Miller, J.	Manual of Obstetrics.
(9) Appleton	Obstetrical and Gynæcological Monographs.
(10) Peterson	Demonstration Course in Obstetrics.
(11) Irving	Text book on Obstetrics.
(12) Beck	Obstetrical practice.
(13) Adair	Obstetrics.

Gynæcology.

(1) Graves	Text book of Gynæcology.
(2) Curtis	Text book of Gynæcology and System of Gynæcology and Obstetrics.
(3) Ten Teachers	Diseases of Women.
(4) Monroe Kerr	Gynæcology.
(5) Blair Bell	Principles of Gynæcology.
(6) Kelly, Howard	Text book of Gynæcology.
(7) Goodall	Puerperal Infection.
(8) Crossen	Gynæcology.
(9) Kennedy, Campbell	Vaginal Hysterectomy.

OPHTHALMOLOGY

Professor and Chairman of the Department.....J. A. MacMillan
Assistant Professor.....Stuart Ramsey
Lecturers.....K. B. Johnston, J. Rosenbaum
Demonstrators.....J. V. V. Nicholls*, B. Alexander, R. J. Viger*

The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courses in the Third and Fourth Year of the Medical Course:—

Third Year.

1. Routine Examination of the Eye.

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours.....Professor MacMillan and members of the Staff.

Third Year.

2. Lecture Demonstrations to Entire Class.

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential information for the clinical work of the Final Year.

Ten hours.....Professor MacMillan.

Fourth Year.

Clinical Ophthalmology.

This teaching is conducted in the Ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals. The class is divided into groups of ten, each group receiving twenty-five hours instruction. Ocular problems that are of greatest moment in general practice are discussed. This includes the external diseases of the eye, the main ophthalmological findings in systemic disorders, affections of the nervous system, and as far as possible a co-relation of the clinical and histological ocular changes.

Professor MacMillan and members of the Staff.

Text-books:—May, Gifford, Parsons, Berens.
Reference books:—Duke-Elder.

*On military service.

OTO-LARYNGOLOGY

Assistant Professor and Chairman of the Department.....D. H. BALLON

Assistant Professor.....G. E. HODGE

Lecturers.....W. J. McNALLY, R. P. WRIGHT, K. O. HUTCHISON, G. E. TREMBLE, A. O. FREEDMAN, E. E. SCHARFE

Demonstrators.....G. E. M. HILTON, F. W. SHAVER

Instruction in Oto-Laryngology is given to students of the third and fourth years and is designed to meet the needs of the general practitioner.

The clinical courses are carried on in the wards and out-patient departments of the Montreal General and the Royal Victoria Hospitals, where the large clinics afford the students ample opportunity of receiving practical instruction. In these two hospitals there are about fifty beds set apart for this specialty.

The practical work is conducted in small groups so that personal instruction and supervision are given to each student.

Medical motion pictures are used as a supplement to the class-room lecture and clinical demonstration.

THIRD YEAR:

A course of 10 demonstrations is given to students of the Third Year. These demonstrations deal with the normal anatomy of the ear, nose and throat, and with methods of examination. The students are required to examine the patients and recognize the normal and common pathological conditions of the ear, nose and throat. Ward rounds are made to illustrate the pre- and post-operative methods of treatment.

LECTURE COURSE:

Ten practical illustrated lectures are given to the whole class. Special emphasis is laid on those surgical procedures which the general practitioner should be capable of performing.

Instruction will be given on the practical value of the bronchoscope in the diagnosis and treatment of diseases of the tracheo-bronchial tree and the œsophagus.

FOURTH YEAR:

Ten clinical demonstrations are given in the out-patient departments and wards of the hospitals. The students are expected to examine the patients and report on them. Differential diagnosis and treatment is stressed.

Text and Reference Books:—Sir St. Clair Thomson: Diseases of the Nose and Throat; A. Logan Turner: Diseases of the Nose, Throat and Ear; Chevalier Jackson and G. M. Coates: The Nose, Throat and Ear and Their Diseases; Philip O. Kerrison: Diseases of the Ear; Chevalier Jackson: Bronchoscopy, Oesophagoscopy and Gastroscopy; D. H. Ballon; Chapters on Bronchoscopy and Oesophagoscopy in Surgical Diseases of the Chest by Evarts A. Graham, J. J. Singer, Harry C. Ballon.

RADIOLOGY

Associate Professor and Chairman of the Department	CARLETON B. PEIRCE**
Associate Professor	W. L. RITCHIE
Assistant Professors	E. C. BROOKS A. E. CHILDE J. W. MCKAY
Demonstrators	J. J. L. BOUCHARD* DOUGLAS C. EAGLESHAM* JAMES G. TYE

COURSES OFFERED

FIRST YEAR.

In co-operation with the Department of Anatomy, demonstrations are given of the Roentgenologic anatomy of the skeletal, respiratory, gastrointestinal and urogenital systems, including fluoroscopic demonstrations of functional anatomy of joints, the thoracic viscera and the alimentary tract.

Associate Professor Peirce and Staff.

SECOND YEAR.

Introduction to Radiology:

In co-operation with the Department of Medicine (Course II 2) as an introduction to special methods in Physical Diagnosis, the various means of Radiologic examination are demonstrated to small groups of students in the Montreal General Hospital and the Royal Victoria Hospital. The fluoroscopic and roentgenographic methods of study of the cardio-respiratory and gastro-intestinal systems especially are compared with the clinical means in physical examination.

Associate Professor Peirce and Staff.
Associate Professor Ritchie and Staff.

**On Part-time Military Service.
*On Military Service.

THIRD YEAR.

III ROENTGEN PATHOLOGY AND RADIATION THERAPY:

A course of 20 lectures presenting the general features of roentgen interpretation, systemic roentgen pathology and the principles of roentgen and radium thereapy.

Associate Professors Peirce and Ritchie.
Assistant Professors Brooks, Childe & McKay.

FOURTH YEAR.

IV-A CLINICAL RADIOLOGY:

(1) A course of six lectures on special clinical applications of roentgen rays and radium radiation.

Associate Professors Peirce and Ritchie
and Members of the Staff.

IV-A (2) Conference periods, two hours weekly each quarter during which the students in the several hospitals discuss clinical case material with the Members of the Department.

Children's Memorial Hospital—Asst. Prof. Childe.
Montreal General Hospital—Assoc. Prof. Ritchie.
Assist. Prof. McKay and Staff.
Royal Victoria Hospital—Assoc. Prof. Peirce,
Assist. Prof. Brooks and Dr. Tye.

IV-A (3) Tumour Conference: the final year students attend Tumour or Neoplasm Conferences in the several teaching hospitals, wherein all means of diagnosis and treatment of malignant neoplasms, especially, are considered by representatives of all departments of the teaching staffs, and their experience reviewed.

POST-GRADUATE INSTRUCTION

Post-graduate training prerequisite to certification in the specialty by the Royal College of Physicians and Surgeons (Canada) or the American Board of Radiology is available in the teaching hospitals to selected graduates of approved Faculties or Schools of Medicine.

Text and Reference Books:—Roentgen Interpretation, Holmes and Ruggles; Text Book of Radiology, Shanks, Kerly and Twining; Diagnostic Radiology, Golden (et al); Head and Neck in Roentgen Diagnosis, Pancoast, Pendergrass & Schaeffer; Roentgenology, Kohler; Urological Roentgenology, Wesson and Ruggles; Clinical Roentgenology of the Cardiovascular system, Roessler; The Digestive Tract, Barclay; Theoretical Principles of Roentgen Therapy, Pohle; Clinical Roentgen Therapy, Pohle; Physical Foundations of Radiology, Glasser, Quimby, Taylor & Weatherwax.

RESEARCH INSTITUTE OF ENDOCRINOLOGY

Director.....J. B. Collip
Asst. Professor.....Robert L. Noble
Lecturers.....A. H. Neufeld*, C. Gwendoline Toby
Fellow.....Hector Mortimer

This Institute established in 1941 and housed in the West Wing of the Medical Building is devoted to research in the fundamentals of endocrinology. It is not an undergraduate teaching department, but is closely associated with the Faculty of Graduate Studies and Research and the Faculty of Medicine and affords facilities for properly qualified graduates to work for the Ph.D. degree.

The Institute is under the direction of Professor J. B. Collip, Gilman Cheney Research Professor of Endocrinology. Dr. Robert L. Noble is the senior assistant in the Physiological branches of the subject and Dr. A. H. Neufeld is the senior assistant in the biochemical branches.

A limited number of graduate students will be accepted. Entrance requirements are either the degree of Doctor of Medicine with high standing in the courses for that degree, or the M.Sc. degree in Physiology or Biochemistry or its equivalent in training in these subjects.

The minimum period in which a student with a B.Sc. or an M.D degree can obtain a Ph.D. degree is three years. A student with an M.Sc. degree or its equivalent may qualify for the Ph.D. degree in a minimum of two years. It is not proposed to do any didactic teaching in the Institute, but candidates for a Ph.D. degree will be required to pass a comprehensive examination in the subject and to submit a thesis.

Inquiries concerning the Institute should be addressed to the Director.

GRADUATE INSTRUCTION

1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do. The minimum fee is $30.00 a term (10 weeks).

*On military service.

*3. Course for Diploma in Public Health: This course is specially designed as a thorough training for medical men in public health.

The duration of the course is one academic year.

The curriculum is as follows:—

(a) A course dealing in a comprehensive manner with the general principles of Public Health and Preventive Medicine.

(b) A course covering health organization, legislation and administration.

(c) A course on vital statistics and records, including practical work.

(d) Courses in bacteriology and parasitology, including laboratory work.

(e) Field work: Arrangements made with the Department of Health, Montreal, and the voluntary health agencies of Montreal.

Seminars are held throughout the year. Arrangements are made for special courses in such subjects as tuberculosis, venereal disease, etc., and for special visits.

Examinations are written, oral and practical.

The inclusive fee for the course is $155 for British subjects and $205 for non-British subjects.

*4. Course for Diploma in Veterinary Public Health: A course leading to a Diploma in Veterinary Public Health (D.V.P.H.) has been organized under the Department of Public Health and Preventive Medicine, and is open to graduates of recognized schools of veterinary medicine.

The purpose of the course is to prepare veterinarians to render better service in the fields of public health, particularly in the control of food and milk supplies, into which they are now being brought.

The work occupies one academic year, with approximately 36 hours of instruction (lectures and laboratory work) per week.

The curriculum includes Public Health, Physiology, Dairy Bacteriology, Nutrition, Milk and Meat Hygiene, Epizootology and Public Health Parasitology.

The tuition fee for the course is $150.

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*Suspended for the present session,

COURSE FOR DIPLOMA IN TROPICAL MEDICINE

This course is offered for the first time during the session 1944-45. Its object is to train medical graduates to deal with medical problems peculiar to tropical areas. In this connection, it has been approved by Faculty as satisfying the requirements of a fifth year of professional training, which is required of McGill graduates before a certificate is issued stating that his medical education is complete, and that he is eligible to sit the examinations of a licensing board. It is also suggested as a refresher course for medical graduates who have been working in the tropics, and wish to take advanced work in Parasitology and other branches related to tropical hygiene.

The Diploma will be granted to graduates of any recognized medical school after completion of three of the following units, of which (a) is compulsory:

(a) Parasitology and Tropical Medicine (3 months).

(b) Ambulatory patients (3 months).

(c) Three months at an approved hospital in the tropics.

(d) Public Health and Tropical Hygiene (3 months).

The fee for the course will be $250.00. In the case of McGill graduates who take the course in lieu of the compulsory interne year the fee will be $75.00.

Curriculum

(a) Tropical Medicine and Parasitology.

Dean D. L. Thomson, Professors F. Smith, T. W. M. Cameron and R. St. J. Macdonald.

Sessional Lecturer: Major D. C. Bews, RCAMC.

This basic course covers Bacteriology, Parasitology and Medical Entomology as applied to Tropical Medicine and includes an introduction to Nutrition and Hygiene as applied to the tropics, as well as a systematic review of the symtomatology, therapeutics, epidemiology and control of all the important Tropical Diseases. The course lasts twelve weeks (September to November) of which the first two are held in Montreal and the remainder at the Institute of Parasitology at Macdonald College. The class meets daily (Monday to Friday) from nine a.m. to five p.m., and includes, in addition to the systematic lectures, demonstrations in public health matters of importance to the tropics, including port hygiene, rat control, disinfestation methods, as well as visits to various institutions. Special prominence is given to laboratory work, and each student studies not only the etiology and pathology of all important tropical diseases, but practical means of diagnosis.

THE DISEASES CONSIDERED INCLUDE:

Malarias (including Blackwater fever), Trypanosomiasis. Leishmaniasis and Amoebiasis Relapsing fever and other Spirochaetal diseases. Rickettsial diseases. Bacillary dysenteries, enteric fevers, and Cholera, Plague, Leprosy, and Undulant fever. Anthrax and other diseases of animals in the tropics transmissable to man. Yellow fever, Dengue fever, and Phlebotomus fever. Schistosomiasis, Filariasis and disease caused by other helmonths including Ascariasis, Hookworm disease, Trichinosis, Guinea-worm disease, Tapeworm disease and Hydatid, Intestinal, Liver and Lung Flukes. Sprue, Beriberi, Pellagra, Scurvy and Nutritional diseases in the tropics. Heat diseases and tropicial skin diseases.

The laboratory course consists in a practical study of the causes and pathology of these diseases together with their vectors and control. (Mosquitoes, Midges, Lice, Flies, Fleas, Bugs, Ticks and Mites). Special attention is paid to diagnostic methods, including examination of the blood, sputum, faeces and urine. Microscopes will be provided.

(b) COURSE IN CARE OF AMBULATORY PATIENTS.

The series of courses in this unit are arranged to give supervised experience in the important diseases common to tropical and temperate climates. Emphasis is placed upon the actual handling of clinical cases. These will be, for the most part, ambulatory patients, attending Hospital and Child Welfare Clinics. Disease will be considered in its various aspects as a community problem. The following courses have been arranged:

(a) *Syphilology:* 12 lectures, and three practical periods weekly for three months in the Out-patient Department. Dr. L. P. Ereaux and one period weekly on Public Health aspects.

(b) *Dermatology:* 12 lectures and two practical periods weekly for three months in the Out-patient Department. Dr. Ereaux.

(c) *Tuberculosis:* practical work three mornings weekly at the Royal Edward Laurentian Hospital, and weekly seminars. Dr. H. E. Burke and staff.

(d) *Child Welfare Clinics:* three afternoons a week at the Chandler Health Centre. Dr. L. M. Lindsay.

(e) Additional work in *Paediatrics.* Dr. R. R. Struthers and in *Haematology.* Dr. Joseph Kaufmann.

(c) CLINICAL INSTRUCTION IN THE TROPICS.

This will consist of a minimum of three months clinical instruction at a hospital in the tropics approved by Faculty. Faculty shall have power to exempt from this course, candidates who have been engaged for at least twelve months in the Treatment of Tropical Diseases in any tropical or sub-tropical country.

**(d) Public Health and Tropical Hygiene.

This course deals with the general principles of Public Health and Preventive Medicine (including vital statistics and records). Special attention will be paid to Tropical life and problems arising from Tropical climates, including water, food, housing and cooling of buildings, disposal of waste, care of the sick, control of nomads and native labour. Suitable demonstrations and visits will be arranged.

THE MEDICAL BUILDING

This Building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 65,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Public Health and Preventive Medicine, the Research Institute of Endocrinology and the Museums of Anatomy, Pathology and Ethnology. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department. The Laboratories for Histology and Embryology have excellent facilities, with space for 120 students, and smaller rooms for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

Adjacent to and connected with the Biological Building is the Laboratory for Experimental Surgery. This two-storey building contains two operating units with sterilization and anæsthetic rooms, as well as commodious quarters for the storage of animals and their care during convalescence. The equipment is very complete and includes a refrigerator plant and kitchen.

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*Suspended for the present session.

THE PATHOLOGICAL INSTITUTE

This building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology and Bacteriology and includes a Pathological Museum and museum workshops. It combines under one roof, quarters for teaching and research in these departments, both for the University and for the Royal Victoria Hospital. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neuro-surgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, laboratories, etc., the building provides complete residential accommodation for six research fellows.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building has been reconstructed to permit of the establishment of a fifty bed unit, together with extensive research laboratories, and was officially opened July 12th, 1944. Plans have been drawn up for the carrying out of undergraduate and post-graduate teaching in the Faculty of Medicine.

HOSPITALS

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Royal Victoria Hospital.
Montreal General Hospital.
Children's Memorial Hospital.
Foundling Division, Children's Memorial Hospital.
Alexandra Hospital for Infectious Diseases.
Verdun Protestant Hospital.
Royal Edward Laurentian Hospital.
The Royal Victoria Montreal Maternity Hospital.

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 2,000 beds.

The Royal Victoria Hospital, in juxtaposition to the University buildings, is a general hospital for acute diseases and contains 693 beds and 96 cribs. In a typical year, it cared for 16,637 cases, while in its out-door department 68,994 cases were treated. Many new additions have been made in the Hospital. A modern University Medical Clinic was established in 1924.

There were 66.2% post-mortems.

The number of resident physicians is 70.

The Royal Victoria-Montreal Maternity Pavilion, with 214 beds for obstetrical and gynæcological cases, was opened in June, 1926. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cared for 2,252 confinements in the Hospital and 210 in the Out-patient Service. In the gynæcological section, 1,803 cases were admitted during the year.

There are ten resident physicians.

The Montreal General Hospital, Central and Western Divisions, is a general hospital for the treatment of acute diseases and contains 600 beds. In a recent year there were 12,200 admissions. The number of patients' visits to the Outpatient Department of both Divisions totals 174,977. Many modern additions to the original buildings have been made permitting increased bed capacity. There is a large biochemical laboratory completely equipped for the complete investigation of the metabolic aspects of disease and in conjunction with this department there is an outpatient clinic, one of the largest on the continent, for the treatment of diabetes mellitus. There were 573 autopsies performed which represents 85% of all autopsies obtainable, i.e., other than coroner's cases, etc. Post Mortem and surgical material at both Divisions is now used for teach-

ing, and clinical teaching is carried out in the public wards at both Divisions. The number of resident physicians is 52. The Dental Clinic of the University completed in 1921 is located at the Central Division and has 50 dental chairs with a large and varied clientele. The number of visits to the Dental Clinic for a recent year was 19,065.

THE CHILDREN'S MEMORIAL HOSPITAL has 267 public beds, and, in a typical year, admitted 3,807 patients. The attendance at its out-door department totalled over 32,459 visits. This hospital admits all classes of cases of disease in children, and enables the students to get a broad concept of pædiatrics. Of special interest are the newly-built wards with cubicles, the Department of Remedial Gymnastics, the Open-air Pavilions, and the well-equipped out-patient service.

There were 97 autopsies per year, which represents 88.3% of all deaths.

The number of resident physicians is 12.

THE ALEXANDRA HOSPITAL FOR INFECTIOUS DISEASES, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

Thet are 172 beds, and, in a typical year, 2,008 patients were admitted to the hospital. There were 14 autopsies.

The number of resident physicians is 3.

THE VERDUN PROTESTANT HOSPITAL has 1,100 beds.

THE ROYAL EDWARD LAURENTIAN HOSPITAL, in its new building, 3674 St. Urbain St., has space for 70 beds, with operating room, X-Ray equipment and modern facilities for the examination of patients; it is essentially a dispensary for tuberculosis and offers adequate material for teaching students the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

Honorary Librarian.....R. L. STEHLE

The Library occupies the central front section of the medical building. It contains more than 65,000 bound volumes and an extensive collection of pamphlets, theses, government publications and other items.

On the third floor are the pleasant, well-lighted reading room, capable of accommodating seventy-five readers, and the periodical room, the catalogue, the charging desk, and exhibits of library treasures. The second floor contains the book stacks and three study rooms available to members of the teaching staff. The first floor is devoted to the technical operations of the library — ordering, cataloguing, etc.

The chief value of the Library is in its periodical collection. Relatively little in the way of important journal literature in all languages is not available in it. The book collection contains many rare volumes, some dating back to the sixteenth century. Among the books and journals the ophthalmological section, due in large measure to many gifts from the late Dr. Casey A. Wood, is excellent.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other medical schools, showing proper credentials, and graduate nurses. Graduates living at a distance may borrow books and journals on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during the academic session from 9 a.m. to 6 p.m., and 7.30 to 10.00 p.m., except Saturdays, when it is closed at 5 p.m. After June 15th it is open from 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 1 p.m. During July and August it is closed on Saturdays.

THE OSLER LIBRARY

Librarian.....W. W. Francis

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 9,500 volumes, occupies a large room, beautifully equipped, on the third floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works; and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death ("Bibliotheca Osleriana," Clarendon Press, Oxford, 1929, xxxvi, 785 pp.)

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 137 books printed in the fifteenth century.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

1. THE McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To assist students to express themselves in public with facility.

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday, at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members, Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

3. THE OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the Faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

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FACULTY OF DENTISTRY

ADMINISTRATIVE OFFICERS

Principal.....F. CYRIL JAMES, PH.D., D.C.L., LL.D.

Dean of the Faculty of Dentistry. .A. L. WALSH, D.D.S., F.A.C.D.

Bursar.....WILLIAM BENTLEY, C.G.A.

Registrar.....T. H. MATTHEWS, M.A.

A complete list of the teaching staff of the University, including the Faculty of Dentistry, is printed as a separate announcement, which may be obtained from the Registrar's Office.

ENTRANCE REQUIREMENTS

Every candidate for admission to the First Year in the Faculty of Dentistry must have completed two full years in the Faculty of Arts of a recognized university, including lectures and laboratory work in *Chemistry* (Inorganic and Organic), *Physics* and *Biology*.

In the case of those who intend to practise in the Province of Quebec it is essential that the candidate should:—

(a) take at least the second of the above two years in a recognized English University of this Province, or

(b) hold a Bachelor's degree from any recognized university in Canada, thus qualifying for eligibility to register with the College of Dental Surgeons of this Province in the study of Dentistry.

Courses meeting these requirements are offered in the Faculty of Arts and Science of McGill University, where a student may take the two years of study required, or the second of the two if he has satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given in the School Certificate Announcement.

COURSES FOR THE DEGREE OF D.D.S.

Acceleration of Course as a War-Time Measure has been discontinued.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not itself give a right to practise the profession of Dentistry. It is necessary to comply with the dental laws of the country, state, or province in which it is proposed to begin practice. Each province in Canada at present has special requirements for its license, and in all of them a certain standard of general education is insisted upon before the study of Dentistry may be begun. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their university course.*

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

**Ontario*—D. W. Gullett, 211 Huron Street, Toronto, 5.
**Nova Scotia*—G. M. Dewis, 69 Gottingen St., Halifax.
**New Brunswick*—A. J. Caughlan, D.D.S., 75 Charlotte St., Saint John.
**Prince Edward Island*—Heath McIntyre, D.D.S., Charlottetown.
**Manitoba*—J. F. Morrison, D.D.S., 403 Medical Arts Bldg., Winnipeg.
**Alberta*—R. A. Rooney, D.D.S., 523 Tegler Bldg., Edmonton, Alta.
**Saskatchewan*—L. J. D. Faskin, Regina.
Quebec—Dr. Denis Forest, 3632 Park Ave., Montreal.
British Columbia—W. J. Lea, 1320 Medical Dental Building, Vancouver.
Newfoundland—A. B. Kennedy, Water St., St. John's.

DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (*i.e.*, all but Quebec and British Columbia) have entered into an agreement whereby the holder of a certificate granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this certificate a candidate must: (1) hold a matriculation certificate of the proper standard; (2) be a graduate of a Dental College within the agreeing Provinces or take the Class D. Examination after five years practising in an agreeing Province; (3) pass the examination set by the council, and (4) pay the local and provincial registration fee.

The Secretary of the Dominion Dental Council is Dr. A. J. Brett, Regina, Sask.

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*Members of the Dominion Dental Council.

REGISTRATION

Students in First and Second Years Dentistry register at the Registrar's Office on Tuesday, Sept. 8th. Students in the Third and Fourth Years register at the Registrar's Office on Monday, September 14th and Tuesday, September 15th. First and Second Year students registering after September 8th and Third and Fourth Year students registering after September 15th are required to pay a late fee. No students are admitted after the 8th of October.

FEES

Tuition Fees

1. Annual undergraduate fee for British* students..... $325.00
   By instalments: Each of two instalments..... 165.00

   Annual undergraduate fee for Non-British* students..... 365.00
   By instalments: Each of two instalments..... 185.00

2. Students repeating the course of study of the first and second years are required to pay half the tuition fee. Students repeating the third and fourth years will pay a hospital fee of twenty-five dollars in addition to half the tuition fee.

3. Qualified partial students are admitted to one or more courses on payment of special fees. For further particulars consult the Dean's Office.

4. Caution Money..... $10.00
   Payable by every student and returned, less deductions for damage, loss, etc., at the end of session.

5. A Dental Cabinet may be rented during the academic year for a fee of $10.

6. A Microscope may be rented during the academic year for a fee of $7.50.

7. In Second Year—Crown and Bridge Model..... $30.00

8. Student Fees. Fees for support of student organizations:
   Regular Students (Men)..... 11.00
   Regular Students (Women)..... 9.00
   Partial Students..... 5.00

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*Domicile will in general determine whether a student pays the British or the Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

GENERAL REGULATIONS

7. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. to 1 p.m. and 2.30 to 4.30 p.m., on the following dates: First and Second Years, September 5th and 6th; but they may be paid before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.
8. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 7.
9. Immediately after the prescribed dates for the payment of fees, the Bursar sends to the Dean of each Faculty, a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

NOTE: Special fees are given in the General Information Pamphlet included in this Announcement.

INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student is required to furnish his own instruments and appliances for both laboratory and operating room, and is not permitted to enter the Course until he is thus supplied.

The approximate cost of instruments and supplies for the First and Second Years, which includes an Anatomical Articulator, an Engine and a Crown and Bridge Model, is $350.00.

Third Year approximate cost	$100.00
Fourth Year approximate cost	75.00

All of these instruments and this equipment will be required for office use when the student enters practice and should be regarded as an investment for that purpose rather than a university expense.

Arrangements have been made with local Dental Supply Houses in order that the student may benefit by a special trade discount.

MEDALS AND PRIZES

The Montreal Dental Club Gold Medal, and a prize in books.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the year.

The College of Dental Surgeons of the Province of Quebec.—A prize of twenty-five dollars awarded to the student, registered in this Province, obtaining the highest standing in the practical examinations of the Final Year.

The Lieutenant-Governor's Silver Medal, and a prize in books.—Awarded to the student in the Final Year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

Third Year Prize in Books.—Awarded to the student obtaining the highest marks in wirtten and practical subjects in the Third Year examinations.

The following prizes are given by the Mount Royal Dental Society:

First and Second Year Prizes.—A prize in books awarded to the student obtaining the highest standing at the sessional examinations.

SCHOLARSHIPS, BURSARIES, AND LOANS

Details of University and other scholarships and bursaries are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

The University has a small loan fund from which loans may be made to students of good academic standing. Loans are made only to students in the upper years. Applications for loans should, in the first place, be made to the Dean.

COURSE FOR THE DEGREE OF D.D.S.

Candidates for the degree of D.D.S. must complete two years of study in a College or Faculty of Arts, with Physics, Inorganic and Organic Chemistry and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum is as follows:—

First Year

Anatomy (human)
Dental Anatomy
Histology, Medical and Dental
Physiology
Prosthetic Technique
Crown and Bridge Technique
Operative Technique
Orientation in Dentistry

Second Year

Crown and Bridge Work
Operative Technique
Orthodontia
Prosthetic Technique
Bacteriology
Pharmacology (general and dental)
Biological Chemistry
General Pathology
Dental History
Dental Ethics
Dental Jurisprudence
Materials used in Dentistry
Metallurgy

*It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

THIRD YEAR

Crown and Bridge Work
Dental Therapeutics
Operative Dentistry
Orthodontia
Prosthetic Dentistry
Dental Radiography
Prosthetic Articulation
General Anaesthesia
Oral Surgery
Local Anaesthesia
Oral Pathology
Root Canal Therapy
Social and Economic Relations of Dentistry

FOURTH YEAR

Orthodontia
Prosthetic Dentistry
Oral Surgery
Crown and Bridge Work
Medicine
Dental Office Management
Periodontia and Oral Hygiene

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 60 per cent in each subject is required to pass, and 85 per cent for honours.

All examinations in each year must be passed before a student is allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations are held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examination excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean, at least three days before the date set for the beginning of the examination, and must be accompanied fy a fee of $10.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one is admitted to the degree of Doctor of Dental Surgery who has not attended lectures for a period of four sessions in the Dental Faculty of this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, are required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examination must furnish testimonials of attendance on the branches of dental education mentioned on page 564; provided, however, that testimonials equivalent to, though not precisely the same as these, may be presented and accepted.

COURSES OF LECTURES

ANATOMY

Robert Reford Professor of Anatomy...C. P. MARTIN
Assistant Professor of Anatomy.....
Associate Professor of Histology.....H. SELYE
Associate Professor Dental Histology..D. P. MOWRY
Lecturer in Histology.....C. P. LEBLOND
Senior Demonstrator in Anatomy.....D. S. FORSTER
Demonstrators.....{W. WALFORD*
E. W. WORKMAN

ANATOMY

1A. GROSS ANATOMY.

This course covers the first two terms of the first year, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. The course runs concurrently with the course in First Year Medicine (Anatomy 1), and comprises five hours lectures and fifteen hours laboratory work a week during the Autumn and Winter terms.

MICROSCOPIC ANATOMY

1. HISTOLOGY AND EMBRYOLOGY.

This course coincides for the main part with the Medical Microscopic Anatomy Cource 5 but the reproductive organs are excluded and special lectures on dental histology and the embryology of the mouth are included. The course finishes at the end of the Winter term.

Laboratory Manual:—Grant's A Method of Anatomy.

Anatomy Text-book:—Gray, Anatomy, or Cunningham, Text-book of Anatomy.

Histology Text-book:—Bailey, Textbook of Histology, or Maximow and Bloom, Histology.

*Captain in War Service.

BACTERIOLOGY

Professor.....E. G. D. Murray[++]
Associate Professor.....Frederick Smith
Assistant Professors.....T. E. Roy[+], C. D. Kelly, D. S. Fleming
Lecturer.....W. H. Mathews[+]
Demonstrators.....D. H. Starkey[+], N. W. McLellan[+], G. G. Kalz

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

Elementary Medical Bacteriology and Immunity

30 lectures and 63 hours Practical Work. Third term.—Available to Students of Dentistry on the completion of their studies in Anatomy, Physiology, Histology and Biological Chemistry.

A choice of one of the following books is recommended:—

T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); Jordan & Burrows, Textbook of Bacteriology (Saunders), or others listed in the Announcements of the Faculties of Arts and Science, and Medicine.

PATHOLOGY

Professor.....G. Lyman Duff
Lecturer.....F. W. Wiglesworth[+]
Demonstrators.....E. S. Ingraham, H. D. Chipps

Required Courses

1. Course in General Pathology.

A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms. (52 lectures).
Professor Duff.

B. Two practical laboratory classes per week during the Spring Term, (80 hours practical work). Professor Duff.
Dr. Wiglesworth and Demonstrators.

PHARMACOLOGY

Professor.....R. L. Stehle
Assistant Professor.....K. I. Melville
Lecturer.....A. M. Fraser

[+]On Military Service.
[++]On Leave of Absence.

A course of ten lectures concerned with those phases of pharmacology which are of importance in dentistry, supplemented by five laboratory periods of demonstrations.

Text-books:—Cushny's, Sollman's or any other standard text.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Assoc. Professor.....R. St. J. MacDonald

A special course of eight lectures on the relations of Dentistry with Public Health and Preventive Medicine.

MEDICINE

(Including General Medicine, Nutrition, Dermatology, Allergic Diseases and Paediatrics).

Professor of Medicine.....E. S. Mills
Professor of Paediatrics.....R. R. Struthers
Professor of Biochemistry.....D. L. Thomson
Associate Professor of Bacteriology..F. Smith
Clinical Professor.....J. F. Burgess
Demonstrator in Medicine.....H. E. MacDermot

This course is designed to give the dental student a general insight into medical conditions which are influenced, either directly or indirectly, by dental problems, as well as general diseases and other pathological processes which influence dentition and the condition of the teeth and gums.

The course consists of twenty-six clinical lectures at which, as far as possible, suitable clinical material is presented to illustrate the various abnormal processes. It is not attempted to give the dental student the impression that he is getting a complete course in Medicine but rather to impress upon him when and how he can be of assistance to the individual in regard to general medical problems and, where the latter also requires his aid, in solving many problems.

Particular attention is paid to:—

(1) Infectious and systemic diseases which may affect the mouth, have manifestations in the mouth, or where the condition of the mouth is important in the general course of the disease;

(2) The importance of diet and nutrition upon the general welfare of man, including food requirements, chemistry of nutrition, calorimetry, metabolism, the ductless glands and their influence on nutrition, etc.

(3) The local manifestations of diseases of the skin as seen in the mouth and mucous membranes;

(4) The importance of proper dentition in the child, with particular emphasis being placed upon vitamins and congenital deficiencies.

BIOCHEMISTRY

Professor.....D. L. THOMSON
Lecturer.....O. F. DENSTEDT

This course is taken with the Medical Students.

REQUIRED COURSES

1. BIOCHEMISTRY—LECTURE COURSE:

Text-books:—Bodansky, Introduction to Physiological Chemistry (Wiley); Cameron, A Text book of Biochemistry (Macmillan); Williams, Text-book of Biochemistry (Van Nostrand).

Monday, Wednesday and Friday at 9, during the Autumn and Winter terms.

2. BIOCHEMISTRY—LABORATORY COURSE:

A synopsis of the course is issued by the Department.

Six hours a week: Monday morning; Thursday afternoon.

DENTAL PATHOLOGY

Demonstrator.....A. GERALD RACEY

This course in Pathology is given in the Third Year.

It includes a study of the developmental defects and malformations of the teeth and special consideration is given to the study of the etiology, diagnosis and pathology of Dental Caries; Diseases of the dental pulp; Periapical diseases; Periodontal diseases; Odontogenic cysts; and tumours which commonly occur in the oral cavity.

A study is also made of the oral manifestations of certain of the infective granulomata, as well as vitamin deficiencies and endocrine disturbances.

In the laboratory microscopic slides of many of these conditions are studied.

The course extends over the entire session, one hour per week during the first half year, and two hours per week during the second half.

Text-books:—Thoma: "Oral Diagnosis and Treatment Planning"; Kronfeld: "Histopathology of the Teeth and Their Surrounding Structures"; Thoma: "Clinical Pathology of the Jaws"; Bunting: "Oral Pathology".

PHYSIOLOGY

The Morley Drake Professor of Physiology.
Research Professor of Physiology and Chairman of the Department.....HEBBEL E. HOFF
Assistant Professor.....N. GIBLIN
Lecturers.....S. DWORKIN, D. A. ROSS, S. A. KOMAROV
Demonstrator.....RHODA GRANT

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear more particularly on the practice of dentistry.

Text-books:—Howell, Textbook of Physiology (14th ed.);
Schafer, Experimental Physiology (6th ed. by Bain).

SURGERY

Professor.....
Assistant Professor.....J. W. GERRIE

The course includes clinical and didactic lectures. The patients in the medical and surgical services of The Montreal General Hospital, both indoor and outpatients are available for teaching. In addition students attend in groups at the Tumor Clinic where a large series of malignant conditions are demonstrated. Clinical lectures are given in the operating theatres, and ward rounds are conducted in the wards where all mouth conditions of interest to dental students are shown. Use is made of lantern slides, gross and microscopic specimens of tissues of operated cases are demonstrated and each student receives mimeographed synopses of the surgical clinics. The students are encouraged to attend operations on mouth diseases and injuries, performed by the teachers doing oral surgery as well as dental surgery. All forms of anaesthesia are demonstrated.

The Dental Clinic, established in The Montreal General Hospital over 28 years ago, treats over twenty thousand patients yearly and also supplies the necessary dental treatment for patients resident in the hospital.

Text-books:—Surgery of Oral and Facial Diseases and Malformations—by George Van Ingen Brown, 4th Edition, 1938, (Lea & Fegiger); Cancer of the Face and Mouth—Blair, Moore, Byers, Blair and Ivy—Oral Surgery; Weston Prices—Dental Infections, Oral and Systemic, 2 vols; Clinical Pathology of the Jaws—Kurt H. Thoma from the Laboratory of Oral Pathology of the Harvard Dental School.

CLINICAL INSTRUCTION

Clinical instruction is given in the Operating Theatre and Out-Patient Department and in the Dental Clinic of the Montreal General Hospital. Abundant opportunity is afforded in this institution for the study of diseased conditions of the mouth and jaws, and for watching operations in these regions.

DENTAL SURGERY

Professor of Dental Surgery.....A. L. WALSH
Lecturer.....J. W. GERRIE
Demonstrators.....R. E. McMAHON*, F. W. SAUNDERS*

Thirty lectures are given to the Junior Students in the above subject, which includes exodontia, cysts, fractures, and benign tumours, alveolectomy and apicœctomy and local anaesthesia. The Seniors are given clinics on practical cases and are required to complete one case during the year in any of the above, excepting exodontia.

GENERAL ANAESTHESIA

Lecturer.....C. C. STEWART

This course, given in the Third Year, comprises a short series of lectures on the general principles and the physiology of anaesthesia, with special emphasis laid on the factors of safety and the suitability of the anaesthetic agent employed. An equal amount of time is spent in the main operating theatre where demonstrations are given of the use of all modern methods of general anaesthesia for dental and oral surgery under actual working conditions.

Text-book:—A. E. Guedel, "Inhalation Anaesthesia" (Macmillan).

DENTAL RADIOLOGY

Associate Professor.....W. L. RITCHIE

During the third year the course is commenced, so that students, on entering the final year, may be equipped to supply and improve their knowledge of the use and application of Roentgen Rays in the study of Pathological changes, and in treatment. This course includes lectures on Roentgen Rays in Dental practice, as well as lantern slide instruction. Practical demonstrations in radiographic, and dark room technique is carried out at the Clinic during the third and fourth years, when constant assistance is available.

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*On Military Service.

DENTAL PHARMACOLOGY AND THERAPEUTICS

Demonstrator.....M. REUTCKY

This course is divided into two parts:

1. Given to second year students comprises the study of the physical properties, chemical composition and physiological action of the various medicinal substances and drugs used in the treatment of diseased conditions of the dental organs and related system.

2. Given to third year student treats the providing doses, antidotes, and contra-indications of the drugs previously studied together with physical and thermal methods that are of use in dealing with morbid conditions of the oral cavity. Special emphasis is paid to the remedies advocated in other courses and in use in the teaching Clinic.

Text-books: Prinz: Dental Materia Medica & Therapeutics, Cipes. Prescription writing for Dentists. Accepted Dental Remedies.

DENTAL HISTORY, ETHICS AND OFFICE MANAGEMENT

Lecturers.....{EARL M. LAURIN
J. NEILSON BLACKLOCK

HISTORY:—

This course is intended to give the student an intellignet conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

ETHICS:—

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner, and himself.

OFFICE MANAGEMENT:—

Under this head the business of the dentist's life will be considered. The question of office equipment, keeping of appointments, overhead charges, methods of determining fees, office assistants, etc., will be taken up.

DENTAL JURISPRUDENCE

Professor.....F. R. SCOTT

A discussion of the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, are fully explained.

METALLURGY

Associate Professor....GORDON ST. GEORGE SPROULE

This course is given to Dental students of the Second Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours each.

The lecture course covers:—

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

Text-book:—J. D. Hodgen, Practical Dental Metallurgy.

The laboratory course includes experimental work with the metals; gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron and steel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Professor Sproule.

DENTAL ANATOMY

Demonstrator.....E. B. CLIFT*
Demonstrator.....R. B. BELL

This course, given in connection with general anatomy in the First Year, aims at giving the student a thorough knowledge of the size, shape, uses, and general construction of the natural teeth, their articulation and composition.

This is accomplished by lectures and demonstrations, with the use of drawings, models and lantern slides.

*On Active Service.

The student is required to carve in plaster four teeth three times natural size and fourteen teeth natural size representing all the forms in the human mouth, which are then articulated anatomically.

Different sections of extracted teeth are made to familiarize the student with the relationship of the different structures composing the teeth.

The total time given this subject during the First Year is five hours a week for a period of twenty-six weeks, total of one hundred and ten hours, divided as follows:—one hour a week devoted to lectures, twenty-six hours; the balance to demonstrating, modelling, carving, making sections, etc., one hundred and four hours.

Text-book:—G. V. Black and M. Diamond (Macmillan).

OPERATIVE DENTISTRY

Professor.....

Associate Professor.....D. Prescott Mowry

Assistant Professor.....W. G. Leahy

Demonstrators.....
- H. V. Driver*
- F. A. Edward*
- L. F. McRae*
- C. H. P. Moore
- P. H. Rowe
- C. R. Seller
- S. S. Smaill*
- Wm. G. Stockwell
- E. T. Cleveland*
- J. E. Vanvliet*
- A. W. Adams
- J. W. Morton
- Ross, T. Murray
- M. Reutcky

The purpose of this course is to make the students thoroughly familiar with all modern and accepted methods. The course of lectures extends over two years and a half, and includes discussion of the treatment of caries: the preparation of cavities, the materials used for filling, the most approved instruments and appliances used in operating upon the teeth. Clinics will be held at the Dental Clinic, where ample material is provided and every available means used to make the student practically conversant with all the up-to-date knowledge of this important branch of dental science.

In conjunction with this course, operative technics is taken up, which provides a systematic course in manual training, thoroughly familiarizing the student with the anatomy of the teeth, and the shaping of cavities, from the simple to the more complex. This is carried out on models, using the different regular filling materials, scaling, bleaching, and, so far as possible, all of the operative procedures.

The Dental Clinic is open throughout the whole year, and students are advised to give as long a time to this work as possible. Each student must provide himself with the instruments necessary for his own use. The

*On Military Service.

School arranges that a kit of instruments is ready at the commencement of the First and Second years for each student. Hr is required to perform all the usual dental operations as they present themselves, under the supervision of competent demonstrators, who are always at hand to offer advice and assistance under the direction of the Professor. Between the Second and Third Years, and also between the Third and Fourth Years, students are required to spend six weeks doing practical work in the Hospital Clinic.

Text-books:—G. V. Black, 2 Vols. (Medico-Dental Co., Chicago); C. N. Johnson (Blakiston); M. E. Jordan, Dental Items of Interest; W. H. O. McGehee, Text-book of Operative Dentistry (Blakiston).

Reference for Periodontia:—Stilman & McCall, Clinical Periodontia (Macmillan, New York).

PERIODONTIA.

Arrangement is made for co-ordination of the theoretical study, practical instruction and clinical practice in the treatment of pathological conditions to be found in the peridental tissues. The physiological and histological structure in relation to function, is made a basis for the study and treatment of the peridental tissues.

Text-books:—Orban, Dental Histology and Embryology; Kronfeld, Histopathology of the Teeth and Their Surrounding Structures.

ORTHODONTIA

Professor.....A. W. McCLELLAND
Lecturer.....GERALD FRANKLIN*
Demonstrators.....M. L. DONIGAN, A. R. WINN

The course in this branch of Dentistry commences with the study of the embryology of the dental organs, covering growth, development and eruption of the teeth.

Orthodontia is taught in three full years of the dental course.

The work of the second year is chosen with a view to giving the student a thorough course in technique. Here, different kinds of free-hand soldering are taught, together with the making of simple appliances; the taking of impressions and the making of plaster models is also taken up in this year.

The third year's work may be divided up into three parts, Practical, Theoretical and Clinical. Advanced appliance technique, plaster work, etc., comprises the practical work of this year.

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*On Military Service.

Ten lectures are given, covering terminology, occlusion and classification, which is deemed sufficient to enable the student to enter on the more difficult theoretical problems of his final year.

Following the lectures, group chair-clinics are given, when patients are examined, simple cases diagnosed, etc.

The third year student is associated with a student of the final year, who is carrying on cases under treatment in the clinic at the Montreal General Hospital. The third year student does not take part in the active treatment, however.

In the fourth or final year a course of advanced lectures is given. These lectures cover Etiology, diagnoses and preventive orthodontia.

Clinical cases are assigned to each student which he treats under strict supervision.

He is called upon to make appliances suitable to the case at hand. Such appliances are designed by the staff and are constructed of precious metals.

Together with the student being responsible for the treatment of the cases assigned him, he must familiarize himself with all other cases under treatment.

Histology is reviewed, paying special attention to the changes that take place in the bone tissue incident to tooth movement.

In the laboratory, slides which are specially selected are microscopically examined.

Text-books recommended are:—Dewey, Brash, Angle, McCoy.

PROSTHETIC DENTISTRY

Professor	J. S. DOHAN
Assistant Professors	W. C. BUSHELL I. K. LOWRY
Demonstrators	R. E. DAGG P. R. MARCHAND WILLIAM G. STOCKWELL E. R. WARD
Special Lecturers	J. C. FLANAGAN E. T. BOURKE (on active service)

This course covers the teaching of mouth reconstruction in its fullest sense. It includes the examination, diagnosis and treatment of cases. the preparation of the mouth and teeth, impressions, the technique of constructing various types of crowns, fixed and removable partial dentures, full dentures, and the construction of appliances for the treatment of cleft palate cases.

For convenience in teaching, the course is divided into four parts, namely: Full Dentures, Removable Partial Dentures, Fixed Partial Dentures, Crowns and Ceramics. The course extends throughout the four years. During the first two years students are given a thorough training in the various techniques on models, etc. The final two years are clinical years and are devoted to lectures at the University, and practical work at the Montreal General Hospital. During these years students are required to complete a certain number of the various restorations in the mouths of patients under the supervision of demonstrators.

Text-books:—Partial Dentures by Edward Kennedy (Dental Items of Interest). Partial Dentures by F. G. Neurohr, (Lea & Febiger); Complete Denture Prosthesis by Schlosse (Saunders), Gillet & Irving, Inlays by the Indirect System (Dental Items of Interest); Schwartz, Cavity Preparation (Dental Items of Interest); Le Gro Ceramics in Dentistry (Dental Items of Interest); Felcher, Art of Porcelain in Dentistry.

CLINIC

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates. Anaesthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a section dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 9 p.m. during the session; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties.

McGILL UNIVERSITY

MONTREAL



FACULTY OF LAW

1944-1945

McGILL UNIVERSITY

FACULTY OF LAW

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D., Docteur de l'Université (Montreal).

Dean of the Faculty of Law.....Charles Stuart LeMesurier, K.C., B.A., B.C.L.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

Secretary of the Faculty of Law...John P. Humphrey, B.Com., B.A., B.C.L.

A complete list of the teaching staff of the University, including the Faculty of Law, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three-year course, preparing students for admission to the legal professions in Quebec and for public service and business. In the field of private law, the course is based mainly on the Roman and Civil systems. The curriculum has recently been revised and now provides students with better opportunities to study the broader purposes of government and to acquire skills in the management of the new institutions and procedures resulting from the increased role of government in the economic and social life of the nation.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will have to satisfy the Faculty that they have attained an equivalent educational standard, and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts and Science Faculty is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they cannot be admitted to the notarial profession in the Province of Quebec.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

Candidates for admission are required to interview the Dean or the Secretary of the Faculty and to obtain permission to register.

Students intending to practise as lawyers or notaries in the Province of Quebec are referred to the information on page 612 regarding admission to the legal professions.

FRENCH

The attention of students is directed to the necessity of being able to read French easily, as many of the works to which they will be referred are in that language.

REGISTRATION

All students must register in person at the office of the University Registrar between Thursday, September 28th, and Saturday, September 30th.

Students registering later than the prescribed dates will be required to pay a late registration fee of $5 during the first week of the session and $10 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

Fees.

The regular fees and special fees are given in the General Information Pamphlet included with this Announcement.

DATES FOR PAYMENT.

Fees are due and payable at the Bursar's Office between Thursday, September 28th, and Saturday, September 30th, but they may be paid before these dates. The second instalment is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late must pay their fees when they register, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees a list of the registered students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students are not readmitted to any class until instructions have been received from the Bursar that the fees have been paid.

PRIZES, SCHOLARSHIPS, AND MEDALS

The "Elizabeth Torrance Gold Medal," founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The Montreal Bar Association offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition," of the value of $50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

The "Robert Alfred Ernest Greenshields Prize in Criminal Law," founded in 1943 by Mrs. Greenshields in memory of her husband, the late Chief Justice Greenshields, D.C.L., LL.D., for many years Professor of Criminal Law and Dean of the Law Faculty. The prize will be awarded to the member of the graduating class having the highest standing in Criminal Law throughout the college course.

The Adolphe Mailhiot Prize, established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty, usually, but not necessarily, in the graduating class.

The "Macdonald Travelling Scholarship" was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language". The

value of the scholarship is approximately $900. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination, and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec. This scholarship will not be awarded until further notice.

The "Edwin Botsford Busteed Scholarship" was founded by the will of the late Mrs. Edwin Botsford Busteed in memory of her husband, Edwin Botsford Busteed, K.C., B.A., B.C.L., and will be awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is approximately $240, which will be paid to the scholar when his thesis has been accepted by the Faculty.

The "Thomas Alexander Rowat Scholarship" was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is approximately $75. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1944-45.

The "Charles Albert Nutting Prize" was founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is approximately $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

Students in the Faculty are eligible for University Scholarships. For particulars see the Scholarshjps Announcement,

No medals, prizes or scholarships will be awarded, if, in the opinion of the Faculty, there is no candidate of sufficient merit.

SCHOLARSHIPS ANNOUNCEMENT

A complete list of scholarships and bursaries and the regulations governing the various loan funds are given in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's Office.

DEGREES

B.C.L.

The degree granted in the Faculty is that of Bachelor of Civil Law. The course covers three years.

No student under the age of 21 years will be eligible for a degree.

M.C.L.

The degree of Master of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research for advanced study in legal subjects. The candidate must have the degree of B.C.L. from McGill or its equivalent, and must have obtained at least second class honours in the subject which he proposes to study and in the course as a whole. He must spend at least one year in resident study and present a thesis on some topic connected with his subject. The complete regulations governing this degree are given in the Announcement of the Faculty of Graduate Studies and Research.

D.C.L.

The degree of Doctor of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given in the Announcement of that Faculty.

LIBRARY

The Law Library of the University at present contains over 14,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are included, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

The general Library of the University is also available for the use of Law students.

EXAMINATIONS

Examinations will be held:—

(a) At the end of the first session, covering the year's work, the final examination in Roman Law, International Law and Accountancy being held at this time.

(b) At the end of the second session, covering the second year's work, the final examination in Constitutional Law and Criminal Law and Procedure being held at this time.

(c) At the end of the course, on the work of the three years, except Roman Law, Constitutional Law, International Law, Criminal Law, and Accountancy. The results obtained in the final examinations in these subjects are included in the Third Year total.

Special tests may be required by the Faculty at any time.

At all examinations in the Faculty students are at liberty to write their answers either in English or in French.

CLASSIFICATION OF MARKS

Class I	80–100%
Class II	70– 79%
Class III	50– 69%

In order to pass a student must have an average of 60%.

SUPPLEMENTAL EXAMINATIONS

(a) Students are not, in principle, allowed the privilege of writing supplemental examinations except in the case of illness and other analogous cases. In the first year, however, one supplemental examination may be allowed, provided the candidate had an aggregate of sixty percent in the regular examinations, if, in the opinion of Faculty, the candidate can proceed to the second year with advantage.

(b) All applications for supplemental examinations must be made to the Dean in writing and must reach his office before September 1st.

(c) The prescribed fees must accompany the written application and are payable to McGill University. Fees for supplemental examinations will be ten dollars for each paper, with a maximum charge of thirty-five dollars. If the third year essay is not accepted, in addition to the foregoing, a charge of ten dollars for reading the revised essay will be made.

GRADUATING ESSAY

In addition to passing examinations students must submit, not later than the 31st of January of their graduating year, a thesis of from five to ten thousand words on a subject set by the Faculty. Although no marks are assigned to the thesis, no degree will be granted unless it is adjudged satisfactory. It will be taken into account in awarding honours and prizes of a general nature, such as the Elizabeth Torrance Gold Medal and the Macdonald Travelling Scholarship, and in deciding upon doubtful cases.

CURRICULUM

FIRST YEAR

Roman Law

Three hours throughout the session — Professor J. P. Humphrey.

Civil Law

(a) Persons and Property.
Two hours throughout the session. — Professor C. S. Le Mesurier.

(b) Obligations.
Two hours throughout the session. — Professor F. R. Scott.

Criminal Law and Procedure

Two hours throughout the session. — Professor C. S. Le Mesurier.

International Law and Organization

Two hours throughout the session. — Professor J. P. Humphrey.

Constitutional Law

One hour throughout the session. — Professor F. R. Scott.

Introduction to Public Law

One hour throughout the session. — Professor J. P. Humphrey.

Accountancy

Arrangements to be announced.

SECOND YEAR

Civil Law

(a) Sale, Lease and Hire, Mandate, Partnership, and minor contracts.
One hour, first term.
Two hours, second term. — Mr. George Owen.

(b) Marriage Covenants, Successions, Gifts, Wills, Substitutions, and Trusts.
Two hours, first term.
One hour, second term. — Mr. Chateauguay Perrault.

(c) Privileges, Hypothecs, Registration, and Prescription.
Two hours, first term. — Professor C. S. Le Mesurier.
One hour, second term.

(d) Legal History.
One hour, second term. — Professor F. R. Scott.

Civil Procedure

Two hours, first term. Professor O. S. Tyndale.
Two hours, second term. Mr. W. F. Macklaier.

Constitutional Law

Two hours throughout the session. Professor F. R. Scott.

Criminal Procedure and Evidence

Two hours, one term.
One hour, the other term. Mr. Gerald Fauteux.

THIRD YEAR

Commercial and Maritime Law

(a) Company Law and Bankruptcy.
One hour throughout the session. Professor A. S. Bruneau.

(b) Introduction to the Study of Commercial Law and Insurance.
One hour throughout the session. Professor B. Claxton.

(c) Negotiable Instruments.
Two hours, first term. Professor F. R. Scott.

(d) Maritime Law and Carriers.
One hour, first term. Professor F. R. Scott.

Civil Procedure and Evidence

Two hours, first term. Mr. W. F. Macklaier.
Three hours, second term. Professor O. S. Tyndale.

Conflict of Laws

One hour throughout the session. Professor C. S. Le Mesurier.

Industrial Law

Arrangements to be announced. Professor F. R. Scott.

Administrative Law

Two hours throughout the session. Professor J. P. Humphrey.

Taxation Law

One hour throughout the session. Mr. Claude Richardson.

ADMISSION TO THE LEGAL PROFESSIONS IN QUEBEC

Candidates proceeding to the Quebec Bar must be British subjects, hold the degree of B.A., B.Litt., or B.Sc. from a Canadian or British university, and satisfy the Bar Examiners that they have successfully completed "the regular course in philosophy" in an approved university. The latter course may be taken concurrently with the law course.

Candidates for admission to the Notarial profession must also be British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English, or French university.

Further information regarding admission to the Bar can be obtained by applying to Mr. Charles Coderre, K.C., Room 15, Old Court House, Montreal, or by consulting the Bar Act, 1925, R.S.Q. chap. 210 (as amended). Information regarding admission to the Notarial profession can be obtained by applying to Mr. Arthur Courtois, Room 320, New Court House, Montreal, or by consulting the Notarial Code, 1925, R.S.Q., chap. 211 (as amended).

McGILL UNIVERSITY

MONTREAL



FACULTY OF MUSIC

1944-1945

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McGILL UNIVERSITY

VISITOR

His Excellency the Governor-General of Canada

CHANCELLOR

Morris W. Wilson, C.M.G., LL.D.

PRINCIPAL

F. Cyril James, Ph.D., D.C.L., LL.D.

DEAN OF THE FACULTY OF MUSIC AND DIRECTOR OF THE CONSERVATORIUM

Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.

BURSAR

William Bentley, C.G.A.

REGISTRAR

T. H. Matthews, M.A.

VICE-DIRECTOR AND SECRETARY OF THE CONSERVATORIUM OF MUSIC

R. de H. Tupper, Address:—677 Sherbrooke St. W., Montreal

All communications should be addressed to the Secretary of the Conservatorium, as shown above.

STAFF OF THE CONSERVATORIUM

DIRECTOR:—MR. DOUGLAS CLARKE, M.A., Mus.B., F.R.C.M., F.R.C.O.
VICE-DIRECTOR:—Mr. R. DE H. TUPPER

PIANOFORTE

MR. WALTER HUNGERFORD
MR. HUGH MCEACHRAN, L.Mus.
MR. IRVIN COOPER, Mus.B.
MR. JOHN J. WEATHERSEED, F.R.C.O.
MR. FRANK HANSON, Mus.B.
MR. SEVERIN MOISSE
MR. J. B. SPEIRS, L.R.A.M., A.R.C.M.
MISS EDITH JOHNSON
MRS. E. EAGER ROSS, L.Mus.

JUNIOR PIANOFORTE DEPARTMENT

MISS GITA MILLER, L.Mus.
MISS JOYCE PICKUP, L.R.A.M., A.R.C.M.

ORGAN

MR. J. J. WEATHERSEED, F.R.C.O.

SINGING

MR. WALTER CLAPPERTON, Hon. A.R.C.M.
MISS JEAN L. MILLAR

SIGHT SINGING AND PART SINGING

MR. WALTER CLAPPERTON, Hon. A.R.C.M.
MR. IRVIN COOPER, Mus.B.

CHORAL STUDY AND APPRECIATION CLASS

THE DIRECTOR

CHORAL AND OPERATIC CLASS

MR. WALTER CLAPPERTON, Hon. A.R.C.M.

PIANOFORTE ACCOMPANIMENT AND VOCAL REPERTOIRE

MR. WALTER CLAPPERTON, Hon. A.R.C.M.

ELEMENTARY AND HIGHER THEORY, MUSICAL DICTATION AND AURAL TRAINING

THE DIRECTOR
MISS MARGARET BENNETT
MR. IRVIN COOPER, Mus.B.
MR. CLAUDE CHAMPAGNE
MR. FRANK HANSON, Mus.B.

History, Aesthetics, Form and Analysis

The Director — Mr. John J. Weatherseed, F.R.C.O.

School Music

Mr. Irvin Cooper, Mus.B.

School Class Teachers' Training Course

Mr. Irvin Cooper, Mus.B.

Teachers' Methods and Materials

Mr. Frank Hanson, Mus.B.

Harmony and Counterpoint

The Director — Mr. Irvin Cooper, Mus.B.
Mr. Claude Champagne — Miss Violet Archer, Mus.B.
Mr. Frank Hanson, Mus.B.

Composition and Orchestration

The Director — M. Claude Champagne

Violin and Viola

Mr. Alexander Brott. L.Mus. — Mr. Stephen Kondaks
Madame J. R. Gilbert — (On active service)

Violoncello

Mr. Raoul Duquette — Mr. Jean Belland
Miss Yvette Lamontagne

Double Bass

Mrs. G. Probyn

Flute

Mr. H. E. Baillargeon

Oboe

Mr. Real Gagnier
Mr. R. Luckett

Clarinet

Mr. J. Moretti

Bassoon

Mr. R. de H. Tupper

French Horn

Mr. J. E. MacDonald

TRUMPET
MR. G. E. JONES

TROMBONE
MR. E. FOWLER

TYMPANI AND PERCUSSION
MR. L. DECAIR

HARP
MRS. J. DROUIN-ADKINS

CONSERVATORIUM ORCHESTRA
MR. R. DE H. TUPPER

CONDUCTING CLASS
THE DIRECTOR
MR. R. DE H. TUPPER

CHAMBER MUSIC AND INSTRUMENTAL ENSEMBLE
THE DIRECTOR

CHAMBER AND ORCHESTRAL MUSIC
REPERTORY AND OPERA
THE DIRECTOR
MR. R. DE H. TUPPER

DALCROZE EURYTHMICS
MLLE. GENEVIEVE BUGNION

MODERN LANGUAGES (ITALIAN, FRENCH, GERMAN AND SPANISH)

By arrangement with the Romance and Germanic Languages Departments of the University, students in Music have special facilities afforded them for studying these languages.

ACOUSTICS

THE DIRECTOR — MR. E. D. TIMMERMAN, B.Sc., A.C.I.C.

PHYSIOLOGY AND HYGIENE OF THE VOICE

EXTRA-MURAL COURSES

Pianoforte classes are held in various schools throughout the City and vicinity. Information with regard to these can be obtained from the Secretary of the Conservatorium, who can also furnish the names of teachers in the City who prepare pupils privately for the McGill Local Centre examinations.

PHYSICAL TRAINING

DR. A. S. LAMB, B P.E. — MISS IVEAGH MUNROE, M.S.P.E., B.Sc., M.A.

(See Conservatorium Regulations, page 646.)

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9 to 10	3rd Mus. B. Harmony					Elementary Grade Theory Senior Grade Theory
10 to 11	3rd Mus. B. Counterpoint		3rd Mus. B. Form and Analysis			Junior Grade Theory Intermediate Grade Theory
11 to 12	3rd Mus. B. Canon, Fugue, etc.		3rd Mus. B. History			Elementary—Junior Grade Theory
12 to 1					Orchestration 3rd Mus. B.	Elementary Grade Theory
1 to 2						
2 to 3	1st Mus. B. Harmony	2nd Mus. B. Harmony			3rd Mus. B. Conducting Class	
3 to 4	1st Mus. B. Counterpoint and Canon and Fugue 2nd Mus. B. History	Chamber & Orchestral Repertory and Score Reading (Mus. 2 & Arts 3) Counterpoint, Canon and Fugue 3rd Mus. B. History	2nd Mus. B. Form and Analysis Orchestral Repertory (2) (Mus. 3 & Arts 4)		3rd Mus. B.	
4 to 5	Elementary Grade Theory Highest Grade History Dalcroze Eurythmics	Highest Grade Form and Analysis Orchestral Repertory and Score Reading (1) 2nd Mus. B.	Junior Grade Theory 4.15 Intermediate Grade Theory	Aural Training (Junior) Highest Grade Harmony		
5 to 6	Aural Training (Senior)	Senior Grade Theory	1st Mus. B. History	Highest Grade Counterpoint 1st Mus. B. Form and Analysis		
6 to 7						
7 to 8	Music in Education (1)	Keyboard Harmony Acoustics	Music in Education (2)	Acoustics	General Theory Class	
8 to 9	Dalcroze Eurythmics		Teachers' Methods and Materials Class	Conservatorium Orchestra (2 hrs.)		

CALENDAR FOR 1944-45

1944

Mon.,	Sept.	11th	First day of session. Teaching begins in all branches of Practical Music.
Mon.,	Sept.	25th	Lectures in Sight Singing, Theory, Harmony, Counterpoint, History, Form and Analysis, Canon and Fugue, Transposition and Orchestration begin.
Fri.,	Oct.	6th	Founder's Day. (James McGill born Oct. 6th, 1744, died Dec. 19th, 1813).
Fri.,	Oct.	6th	Convocation.
Fri.,	Oct.	6th 8 p.m.	Presentation at the Royal Victoria College of Diplomas of Associateship and certificates gained in the examinations at the end of last session.
Sun.,	Nov.	11th	Remembrance Day.
Wed.,	Dec.	20th	All lessons and classes end until after the Christmas vacation.

1945

Wed.,	Jan.	3rd	All lessons and classes resumed.
Wed.,	Feb.	7th	First Students' Recital in Conservatorium Hall.
Fri.,	Feb.	16th	First Junior Students' Recital in Conservatorium Hall.
Wed.,	Mar.	14th	Second Students' Recital in Conservatorium Hall.
Fri.,	Mar.	23rd	Second Junior Students' Recital in Conservatorium Hall.
Mon.,	April	1st	Last day for examination entries.
Fri.,	March	30th	Easter Vacation.
Mon.,	April (inclusive)	2nd	
Fri.,	April	27th	Examinations in Theory begin (see page 674).

Mon.,	May	7th	Practical Examinations begin at the Conservatorium.
Mon.,	May	8th	Examinations in Higher Theoretical Music begin.
Sat.,	May	5th	Last day of Lectures.
Wed.,	May	30th	Convocation.
Sat.,	June	2nd	Last day of lessons. Conservatorium closes.

FACTS OF HISTORICAL INTEREST

1904, September 21st	First day of teaching at the McGill University Conservatorium of Music. (Dr. C. A. E. Harris, Director.)
1904, October 14th	Conservatorium formally opened by their Excellencies, Lord and Lady Minto, First Recital.
1908, October	Dr. Harry Crane Perrin takes up his duties as Director of the Conservatorium and first Professor of Music in McGill University.
1909, February 23rd	First Orchestral Concert.
1910, February 17th	First Choral Concert.
1910, April, May, June	First Local Centre examination throughout the Dominion.
1910, June 9th	First Mus. B. Degree conferred.
1911, May 12th	First Mus. D. Degree conferred.
1917,	Conservatorium endowed by Sir William Macdonald.
1918, May 1st	Resignation (owing to illness) of Sir William Peterson, K.C.M.G., as Principal of the University.
1920, April 26th	The Governors of the University constituted a Faculty of Music with Dr. Perrin as Dean of the Faculty.
1920,	General Sir Arthur Currie, G.C.M.G., K.C.B., appointed Principal of the University.
1921,	Two Music Scholarships founded as a memorial to the late Sir William Peterson.
1922,	Two Music Scholarships founded as a memorial to the late Sir William Macdonald.
1923,	Conservatorium building becomes the property of the University by deed of gift from Lady Strathcona in accordance with the wishes of her father, the late Lord Strathcona.
1929, September	Mr. Douglas Clarke takes up his duties as Director.
1930, September	Mr. Douglas Clarke appointed Dean of Faculty of Music.
1933, November 30th	The Principal, Sir Arthur Currie, died.
1935, October 5th	Mr. A. E. Morgan installed as Principal and Vice-Chancellor.
1938, January 7th	Mr. Lewis W. Douglas installed as Principal and Vice-Chancellor.
1940, January 12th	Dr. F. Cyril James installed as Principal and Vice-Chancellor.

PUBLIC EVENTS OF SESSION

The chief public events of last session were:—

1943

October 8th Presentation at the Royal Victoria College of Diplomas of Associateship and certificates gained in the examinations at the end of last session.

Scholarships were awarded as follows:—

Macdonald Memorial Scholarship—Sona Pecmanova—Violin.

Peterson Memorial Scholarship—Jean Brown—Singing

Peterson Memorial Scholarship—Dorene Marshall—Singing.

Conservatorium Bursary:
Winston Mahabir—Singing.
Joyce Rawlins—Singing.

Bursary—Raizel Frank—Clarinet.

November 18th First Concert by Examination candidates who obtained highest marks in their grades.

25th Second Concert by Examination candidates who obtained highest marks in their grades.

1944

February 9th Recital by Senior Students in Conservatorium Hall.

18th Recital by Junior Students in Conservatorium Hall.

25th Concert by Conservatorium String Orchestra in the Royal Victoria College.

March 24th Recital by Senior Students in Conservatorium Hall.

31st Recital by Junior Students in Conservatorium Hall.

May 26th Concert by the Conservatorium Orchestra in Royal Victoria College.

SESSIONAL ANNOUNCEMENT

The work of the Conservatorium of Music for the season 1944-45 will begin on September 11th, 1944, and will end on June 2nd, 1945. It consists of three terms of eleven weeks each, with an additional summer term of three weeks, viz.:—

(a) September 11th to Nov. 25th.

(b) November 27th to February 24th (Christmas vacation, December 21st to January 3rd).

(c) February 26th to May 12th.

Short summer term if desired.

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the last week of September and extend over three terms of ten weeks each, viz:—

(a) September 25th to December 2nd.

(b) December 4th to February 24th.

(c) February 26th to May 5th.

The examinations in Montreal for certificates and diplomas will be held towards the end of the third term, i.e., from May 7th to May 19th. The Theoretical Examinations which precede the Practical Local Examinations will begin approximately May 1st (see page 674).

ADMISSION

Students of the Conservatorium are admitted either as:—

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music or the Degree of Bachelor of Music in the University.

Partial Students, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists are, at the discretion of the Director, assigned to certain of the following classes:—Theory, Harmony, History, Form and Analysis; Ensemble Playing. Vocalists are assigned to two of the following classes: Theory, Sight-Singing, Choral Class.

Class Students. Those wishing to attend lectures or classes only in either theoretical or practical subjects.

FEES

CONSERVATORIUM OF MUSIC

The fees are as follows:—

Regular Students, $225.00 a year payable at the beginning of the session (not later than October 1st) or in two instalments of $115.00 each, payable before October 1st and January 15th, respectively. This sum also covers the fees for the Diploma or Degree Examination at the end of the year, as well as fees to Students' Societies, and charges for Physical Education—which is compulsory.

At the request of the students themselves and by the authority of the Senate, a fee of $10.00 is collected from all men undergraduates for the support of certain Student Societies, the use of the skating rinks and tennis courts during the session and for admission to the home games under the control of the Athletic Board. Women undergraduates pay a fee of $8.00.

Partial Students. $15.00 to $60.00 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each are allowed to take the examination for a Local Centre Examination Certificate at the end of the year without any further fee.

Class Students. Fees vary between $5.00 and $25.00 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, are the same as the fees for the Local Examinations. (See page 680).

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a receipt showing that the necessary fees have been paid.

FEES FOR DIPLOMA AND DEGREE EXAMINATIONS

DIPLOMA OF ASSOCIATE (A.Mus.)—Fees for examination, $15.00. Diploma fee, $2.50.

DIPLOMA OF LICENTIATE (L.Mus.)—Fees for examination, $45.00, of which $15.00 is payable at each examination. Diploma fee, $5.00.

DEGREE OF BACHELOR OF MUSIC (Mus.B.)—Matriculation fee, $10.00 (see General Announcement of the University). Fees for examinations payable as follows:—First examination in Music, $20.00. Second examination in Music, $20.00. Final examination in Music, $20.00. Graduating fee, $20.00.

Although under special conditions exemptions from certain examinations for the Diplomas of Associate and Licentiate and Degree of Bachelor of Music may be allowed, there is no exemption from the *fees* given above, except in the case of candidates holding the requisite McGill Local Centre Certificates.

DEGREE OF DOCTOR OF MUSIC (Mus.D.)—Fee $100.00, one-half of which ($50.00) is paid when submitting exercise and the balance ($50.00) before the final examination.

N.B,—Candidates examined in theoretical subjects connected with the above Degrees, Diplomas and Special Certificates at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

CONSERVATORIUM REGULATIONS

1. Fees are not refunded, nor is the length of the term extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.

2. *No business matters can be arranged through the instructors, but must be transacted through the office.*

3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term and fees for the full additional term must be paid.

4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students are their loss, unless a Doctor's certificate is produced, when lessons will be made up, but no fees will be refunded or remitted.

5. *All students must sign the attendance register in the office immediately after each lesson.*

6. Every student (except those attending schools) must, at the beginning of each session, *either* produce a medical certificate from his or her medical attendant *or* be examined by the Medical Officer appointed by the University. See General Announcement.

7. No student suffering from an infectious or contagious disease, or who is, in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, is allowed to attend.

8. Students are required to be punctual at lessons, lectures, concerts and examinations.

9. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.

10. No change in course or teacher can be made without first obtaining the consent of the Director.

11. Students are advised to take the sessional examination (the form of such examinations to be decided by the Director) and are prepared for the same by the instructor or instructors to whom they are assigned.

12. *Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.*

13. The name of each lecture and the hours at which the classes are held will be posted on the notice boards.

14. *Registered students of the Conservatorium must take part in either recitals or concerts, if required to do so by the Director.*

15. Visitors are not allowed to be present during any lesson (class or private) except by permission.

16. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.

17. Smoking within the building is absolutely prohibited.

18. Physical education is compulsory for all regular students of the first two years, two periods per week being devoted to it. No student is asked to do work unsuited to his or her physique, and students debarred from exercise of any kind are dealt with separately and carefully advised.

SCHOLARSHIPS

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of $1,500.00 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES

Full-time students studying for the Licentiate in Music or for the Bachelor of Music degree may apply for University Bursaries. For details see the separate Scholarships Announcement which may be obtained from the Registrar's Office.

REQUIREMENTS FOR DEGREES

(For Fees, see page 646)

For requirements for the Degree of Doctor of Music, see page 722.

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c. each.

THE MATRICULATION EXAMINATION

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees are examined in the following:—

1. English (two papers).
2. History (one paper).
3. Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Algebra or Geometry (one paper).
5. Music—one paper. The paper set is that of the Highest Grade (Harmony and Counterpoint) of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University.

EXAMINATIONS IN MUSIC

The first and second practical studies are no longer required. In their place reading from open score is required in each part of the Mus.B. examination.

First Examination in Music

(a) Harmony in three and four parts.

(b) Strict Counterpoint up to three parts, answers to Fugue subjects, and Fugal Exposition and episode in two parts. Double Counterpoint at the 8ve and 10th.

(c) Form and analysis. Questions will be given on accent, cadences metre, rhythm, phrasing, etc., and on the form of the pieces included in lists A and B of the Highest Grade Piano Local Centre Examinations.

(d) Musical History, 1600-1900.

(e) Playing on the pianoforte from open vocal score (G & F clefs only).

(f) Viva voce.

Second Examination in Music

(a) Harmony in not more than four parts, choral and instrumental.

(b) Counterpoint (strict and free) in not more than four parts.

(c) Canon in two parts and fugal exposition up to four parts.

(d) History of music from earliest times to A.D. 1600.

(e) Form and analysis. The candidate must show an intimate knowlege of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics or physiology of the voice.

(g) Playing on the pianoforte from string quartet score.

(h) Viva voce.

The possession of the Diploma of Licentiate of Music obtained either under Classes A, C or D from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. B., and, accordingly, candidates can proceed direct to the Final Examination, provided that they have matriculated.

Final Examination in Music

(a) Harmony up to five parts.

(b) Free Counterpoint, up to five parts, in 16th century style.

(c) Fugue in three and four parts. Episode to contain example of double counterpoint at the 12th.

(d) History of music from 1900 to present.

(e) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; an Opera *or* an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner, besides contemporary works. Candidates may, at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination paper in this subject will be based.

(f) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time; also the reading at sight from an easy score of a classical composer.

(g) Two compositions to be sent in by a candidate, to be received by the Secretary of the Examining Board not later than the last day of the second week in April. One to be an unaccompanied vocal work (not an anthem) showing considerable vocal resource; the other to be a work for strings, or combination of not less than four instruments or full orchestra. The works may be in any form and the instrumental composition should be of extended length. Candidates, when submitting their compositions, must send at the same time, a signed statement to the effect that the works are their own unaided efforts.

(h) Viva voce.

BACHELOR OF MUSIC—MUSIC IN EDUCATION

Prerequisite for the Course leading to the Degree of Bachelor of Music in Education to be:

(a) Junior Matriculation (or the equivalent).

(b) Completion of all the requirements for the Licentiate Diploma (Class D).

Before sitting for the examination, candidates must submit an original thesis on some phase of music in education, previously approved by the Dean of the Faculty of Music. Thesis must be in the hands of the Secretary of the Faculty of Music before April 1st.

Course Leading to the examination will be in three parts:—

1. Theoretical work
2. Practical work
3. Viva Voce.

1. THEORETICAL WORK

(a) Harmony up to 4 parts, thus: S.S.A.; S.A.B.; S.S.A.A.; S.S.A.B.; S.A.T.B.; including harmonizing melody (in the style of a Bach chorale) for strings or wind.

(b) Counterpoint, strict and free up to 4 parts.

(c) Fugal exposition in four parts.

(d) History of Music—1900 to date.

(e) Form and Analysis. Knowledge will be required of such works as the following: Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms's Songs; and an Opera or Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner, besides contemporary works. List of works on which the examination papers in this subject will be based may be obtained from the Secretary of the Faculty of Music at least three months before the date of the examination.

(f) Instrumentation. A knowlege of the compass and capabilities of all instruments in the orchestra and military band, and the scoring of a given passage in a given time for high school band and high school orchestra.

2. PRACTICAL WORK

Ability to:

(a) Direct School Band or Orchestra.

(b) School choral group with Band or Orchestral accompaniment.

(c) Teach School Instrumental class, brass or strings or reed.

3. VIVA VOCE

(a) Questions concerning any phase of school music.

(b) Preparation, and test, of repertory will be given by means of gramophone recordings concerning candidate's knowledge of thematic material in works selected for that purpose. A list of works on which the test will be based may be obtained from the Secretary of the Faculty of Music six months prior to the examination.

(c) Questions pertaining to the submitted thesis.

REQUIREMENTS FOR THE DIPLOMA OF LICENTIATE IN MUSIC

(For Fees, see page 646)

Candidates may elect to be examined either in:—

Class A—Theoretical Subjects and Composition, or

Class B—Practical Subjects as Performers, or as

Class C—Professional Instructor.

Class D—School Teacher.

CLASS A—THEORETICAL SUBJECTS AND COMPOSITION

First Examination

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) The Harmony and Counterpoint paper of the Highest Grade Local Centre theoretical examinations.

(c) History and Form and Analysis paper of the Highest Grade Local Centre theoretical examinations.

Second Examination

Requirements a, b, c, and d are the same as those for the First Examination for Mus.B. (See page 649).

(e) Composition of a song (or two short songs) or a miniature suite for piano (or piano and violin, or any other combination), or an arrangement for S.A.T.B. (unaccompanied) or three female voices (accompanied or unaccompanied) of any genuine folk-song. *The parts must show character and independence.* The M.S. must be in the hands of the Secretary of the Examining Board, McGill Conservatorium of Music, Montreal, not later than the last day of the second week in April.

Third Examination

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. B. (See page 649).

(f) Practical work on pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); or (2) a Chorus with independent accompaniment for strings or some combination of orchestral instruments (*not an anthem*); or (3) an extended composition for strings. This must be received by the Secretary not later than the last day of the second week in April.

(h) Viva voce.

CLASS B—PRACTICAL SUBJECTS AS PERFORMERS

FIRST EXAMINATION

Candidates are required to pass Senior Grade of the Local Centre Examination in Theory. (See page 681).

and

(a) Easy Transposition Tests (for instrumentalists only).

(b) Diction in respect of Modern Languages (for singers only).

(c) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations. Candidates will be asked questions on the form of the works presented, as well as questions relating to keys and modulations.

SECOND EXAMINATION (SEMI-FINAL)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, are found under separate headings.

PIANOFORTE

(No written examination)

1. *Scales.*

Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, 6th and 10th through four octaves; also in double 3rds (in similar motion only) and double 8ves through two octaves.

The candidates must be prepared to play all the above-mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch (double 3rds in similar motion only).

2. *Arpeggios.*

Common chords, with hands commencing either an 8ve, 3rd, 6th, or 10th apart, in similar and contrary motion, also common chords in double octaves, legato and staccato, beginning on either the highest or lowest notes; dominant and diminished 7ths in similar motion an octave apart or at any inversion or interval; in contrary motion commencing either on the same note and working outwards, or on the extreme notes and working inwards. Also double octaves.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semi-tone above or below.

5. *Performance.* (Extra marks will be given for playing from memory.)

(a) One of the following Preludes and Fugues:—

Prelude and Fugue No. 12 in F minor—Book I
No. 19 in A major—Book I
No. 5 in D major—Book II
No. 10 in E minor—Book II
..... BACH

or

French Suite No. 1 in D minor ..... BACH

(b) Variations on a Hungarian Song—Op. 21 No. 2
or
Variations on a theme by Schumann—Op. 9
..... BRAHMS

or

24 Variations in D Major on "Vieni amore" by Righini—
BEETHOVEN

(c) Etudes: Op. 25, Nos. 1 or 9, or
Op. 10, Nos 3 or 5
or
Nocturnes Op. 15 No. 2 or Op. 48 No. 1, or
Op. 9 No. 3.
..... CHOPIN

(d) Ragamuffin ..... JOHN IRELAND
or Preludes 14 (E flat minor *and* 18 (F minor) of 24 Preludes—
Op. 11 ..... SCRIABIN
or Danse profane (from Two Dances)—(1) Danse sacrée,
(2) Danse profane ..... DEBUSSY

(e) A piece of the candidate's own choice.

6. Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN

(No written examination)

1. *Scales.*

   Any major or minor scales, selected by the examiners in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings. Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

   All major and minor chords throughout three octaves, and in octaves throughout two octaves. Dominant sevenths and diminished sevenths in all keys throughout three octaves.

3. *Reading at Sight.*

4. *Performance.*

   Candidates must perform any one Etude from each of the following composers:—Kreutzer, Fiorillo, Gavinies, and Rode, and also play one of the following Sonatas:—

   Concerto No. 5 in A major (K. 219).....MOZART
   Sonata in F major (Op. 24).....BEETHOVEN
   Sonata in G major (Op. 30 No. 3).....BEETHOVEN
   Sonata in G major (Op. 78).....BRAHMS

5. *Questions.*

   Questions will be asked on the general outlines of form shown in the studies and pieces, and also a few on the general outlines of musical history.

   Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO

(No written examination)

1. *Scales.*

   Major, minor (melodic form), and chromatic scales in all keys.

2. *Arpeggios.*

   Studies Nos. 10 and 15.....J. L. DUPORT
   Any two studies.....DOTZAUER
   (From 24 Daily Exercises. Augener.)

3. *Reading at Sight.*

4. *Performance.*

Candidates must be prepared to play one piece from any two of the following groups—two items in all:—

(a) Suite No. 1 ..... J. S. BACH

(b) Sonata in E minor (Op. 38) ..... BRAHMS
(1st movement only) or
Sonata in F (Op. 99) ..... BRAHMS
(1st movement only) or
Sonata in A major (Op. 69) ..... BEETHOVEN
(The whole)

(c) Also any two of the following pieces:—
Seven Variations on a Theme from "The Magic Flute" (Op. 66) ..... BEETHOVEN
Two Poems ..... HUGO ANSON
(Oxford University Press)
Slumber Song (arr Harvey Grace) ..... BACH
(Oxford University Press)
Five Irish Folk Tunes ..... HOWARD FERGUSON
(Oxford University Press)

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

Requirements will be forwarded to candidates on application to the Secretary, 677 Sherbrooke Street West, Montreal.

ORGAN

(No written examination)

1. *Scales.*

(a) Manuals only (with both hands).

(b) Pedals only.

(c) One hand only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

In the case of (a) and (c) contrary motion may be required.

2. *Arpeggios.*

(a) For pedals through two 8ves; common chords, major and minor in keys of C, D, D flat, E flat, E, and F.

(b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semitone above or below.

5. *Performance* of either List A or List B.

List A.

BUXTEHUDE: Prelude and Fugue (Ed. Ley) (Oxford University Press) No. 14 in G minor.

BACH: In Dulci Jubilo: (Book XV, page 26; Novello Ed.; or page 244, Peters Ed.).

STANFORD: No. 6 of 6 Preludes and Postludes, 2nd set Op. 105. (Stainer & Bell).

List B.

BACH: Vivace from Trio Sonata in D Minor No. 3. (Novello or Peters).

MENDELSSOHN: Last Movement 5th Sonata. (Any edition).

FRANCK: Prelude Fugue and Variation (B. minor). (Peters 3744A).

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING

(No written examination)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed.

(For example, see Randegger's Singing Primer, pages 38, 41 and 48). Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's Singing Primer, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Performance.*

Studies.

Soprano or Tenor—Any two from No. 1 to No. 17, Fourth Series.
Part I. 30 Solfeggios.....VITTORIO RICCI

Alto or Bass—Any two from No. 1 to No. 17, Fourth Series.
Part II. 30 Solfeggios.....VITTORIO RICCI

Medium Voices—Any two from No. 1 to No. 17, Fourth Series.
Part III. 30 Solfeggios.....VITTORIO RICCI

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) Two specimens of Recitative.

(b) Two arias from an Oratorio or Oratorios,
or
Two arias from an Opera or Operas.

(c) One song by any of the following composers:—SCHUMANN, SCHUBERT, FRANZ, BRAHMS, LOEWE, PARRY, ELGAR, WOLF, HENSCHEL, STANFORD, SCOTT, IRELAND.

(d) One song by any of the following composers:—BALAKIREFF, GRIEG, HAHN, SIBELIUS, ARMSTRONG GIBBS, HOLST, VAUGHAN-WILLIAMS, STRAUSS, DELIUS and FAURE.

(e) Two specimens of Folk Song from "A selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

N.B.—The selection made will be taken as an indication of the candidate's taste.

5. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.

Questions may be asked on the more advanced rudiments of music.

THIRD EXAMINATION (FINAL)

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, are found under separate headings. There is no written examination.

PIANOFORTE

1. *Transposition Test.*

   The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*

   Questions will be asked on musical history from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Performance.*

   One of the specified items from each group to be prepared:

   (a) Prelude and Fugue in F sharp major, Bk. I
   Prelude and Fugue in C sharp major, Bk. I
   Prelude and Fugue in A flat major, Bk. II
   Prelude and Fugue in D sharp minor, Bk. II
   Prelude and Fugue in C sharp minor, Bk. II
   ..... BACH

   French Suites Nos. 4, 5 or 6
   Chromatic Fantasia and Fugue ..... BACH

   (b) Any *two* of the following Etudes: Op. 10, Nos. 1, 2, 7, 8; Op. 25, Nos. 6, 8, 10, 11 ..... CHOPIN

   (c) Concerto No. 5, Op. 73
   Sonata in E, Op. 109
   Sonata in E flat, Op. 81a
   ..... BEETHOVEN
   Sonata in B minor, Op. 58 ..... CHOPIN
   Sonata in G minor, Op. 22 ..... SCHUMANN

   (d) Variations on "O Mistress Mine" (Novello) ..... BYRD
   Variations in A ..... GLAZOUNOV
   (Omitting variations 4, 5, 12
   Ballade in D major, Op. 10, No. 2 ..... BRAHMS
   Scherzo in E flat minor ..... BRAHMS
   Etudes Symphoniques
   (Theme and any three Etudes) ..... SCHUMANN

   (e) Reflets dans l'eau ..... DEBUSSY
   L'Isle Joyeuse ..... DEBUSSY
   Poissons d'Or ..... DEBUSSY

(Continued overleaf)

Special Note.—In place of a selection from sections (d) and (e) the candidates may present César Franck's Prelude, Choral and Fugue.

(e) Continued.

Bourrée Fantasque (Enoch & Sons) ..... Chabrier
Ondine ..... Ravel
Sonatine ..... Ravel
Rhapsody ..... John Ireland
A Reel, No. 4 of Four Irish Dances (Stainer & Bell) ..... Stanford-Grainger

(f) A piece of the candidate's own choice.

Note.—Candidates must be prepared to play some, if not all, of these from memory.

5. *Examination in Second Study.*

Certificates gained in any of the three higher grades of the local practical examinations exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, Singing or Wind Instrument.

VIOLIN

1. *Sight Reading Test.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.*

One piece to be selected from each of the following groups:—

(a) Chaconne ..... Bach
Sonata in G minor ..... Bach
(For violin alone, Prelude and Fugue only.)

(b) Sonata in C minor, Op. 30, No. 2 ..... Beethoven
Sonata ..... Debussy
Sonata ..... Ravel
Sonata in A ..... Cesar Franck
Sonata in A minor ..... John Ireland
(Winthrop Rogers)

(c) Concerto (1st two movements) ..... Beethoven
Concerto (first movement) ..... Elgar
Concerto in D minor (first two movements) ..... Max Bruch
Concerto No. 4 in D major ..... Mozart
(First two movements; Joachim's Cadenza)
Concerto in A minor Op. 73 ..... Glazounov
First *or* second movement

(d) Spanish Suite:
Suite Espagnole.....NIN
Nigun—Improvisation.....ERNEST BLOCH
La Fontaine d'Arethuse.....SZYMANOWSKI
Variations.....JOACHIM

4. *Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte exempt candidates from this test.

VIOLONCELLO

1. *Reading at Sight.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.*

Sonata in D (for 'cello alone).....DONALD TOVEY
Sonata in F major (Op. 99).....BRAHMS
(First movement)
Sonata in E minor (Op. 38).....BRAHMS
(Last movement)
Spanish Nocturne.....E. GOOSSENS
(Pub. by Hawkes & Son)
Concerto (Op. 85).....ELGAR
Sonata (last movement).....DELIUS

4. *Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test.

ORGAN

1. *Transposition and Modulation Tests.*

The transposition of a passage into another key not exceeding a tone above or below. Modulation—Candidates are advised to make their modulation musically and not only mathematically correct.

2. *Sight Reading Test.*

3. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Performance.*

Of one piece from each of the following lists:—

(a) Prelude and Fugue in G major.....BACH
(Book VII Novello)
Prelude and Fugue in E flat major.....BACH
(Book VI Vol. II Novello)
Fantasia and Fugue in G minor.....BACH
(Novello VIII or Peters)
Prelude and Fugue in C minor.....VAUGHAN WILLIAMS
(Oxford University Press)

(b) Sonata in E minor No. 8 (Op. 132).....RHEINBERGER
(Novello)
Sonata in C sharp minor.....HARWOOD
(Schott)
Sonata Britannica No. 3 Op. 152.....STANFORD
(Stainer & Bell)
Sonata in G major Op. 28.....ELGAR
(Breitkopf & Hartel)
Sonata in G minor Op 28.....PIUTTI
(Peters)

(c) Dithyramb.....HARWOOD
Toccatina on "Corde Natus" (Augener).....EAGLEFIELD HULL
Concert Fantasia on "Hanover" (Novello).....E. LEMARE
Vorspiel and Liebestod (arr: J. E. West).....WAGNER
(Novello)
Choral in E.....FRANCK
Choral in B minor.....FRANCK
(Peters or Durand)
Introduction and Passacaglia.....ALCOCK
(Oxford University Press)

5. *Short Extemporization on a Given Theme.*

6. *Examination in Second Study.*

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test, whether the subject chosen is either Pianoforte, or Violin, or Violoncello, Singing, or Wind Instrument.

SINGING

1. *Performance.*

   (a) Studies.

   Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part I, of 30 Solfeggios.....VITTORIO RICCI
   Alto or Bass—Any two from No. 18 to the end of the Fourth Series, Part II, of 30 Solfeggios.....VITTORIO RICCI
   Medium Voices—Any two from No. 18 to the end of the Fourth Series, Part III, of 30 Solfeggios.....VITTORIO RICCI

   (b) The principal solo work from an opera or oratorio.

   (c) Not less than three songs in various languages to exemplify proficiency in diction.

2. *Sight Reading Test.*

3. *Questions* on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Chief Study.*

   The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to specify satisfactorily other work on which any individual candidate will be examined. The Examination Board is prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—

   (a) As soloist for Concert Work only.

   (b) As soloist for Light Opera.

   (c) As soloist for Grand Opera.

   (d) As soloist for Oratorio.

   (e) As soloist for a combination of any of these.

   Candidates must submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

5. *Second Study* (which must be the Pianoforte).

   Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte exempt candidates from this test.

   The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompaniment at first sight, will be accepted as second study.

CLASS C. PROFESSIONAL INSTRUCTOR (THEORY AND PRACTICE)

First Examination

(Partly written and partly viva voce)

Candidates are required to pass the Highest Grade of the Local Centre examinations in Theory. (See page 680).

Chief Subject.

Candidates will be expected to show sufficient executive ability to perform the technical work, studies and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Highest Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

N.B.—Sight reading tests and ear tests will be given in each part of this examination.

Second Examination (Semi-Final)

(Partly written and partly viva voce)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
2. Counterpoint in two parts.
3. Musical History 1600-1900.
4. The principles of Elementary Form and Analysis.
5. Chief Study.

Pianoforte.

For Scales, Arpeggios, reading at sight and transposition the requirements are the same as those for performer. (See pages 652 and 653.)

Performance.

Three Part Inventions.....Bach
Nos. 3 D major *and* 4 D minor.
or
Nos. 11 G minor *and* 12 A major.
(Tonmeister Edition)

and one of the following Preludes and Fugues

Preludes and Fugues No. 5 in D Book II
No. 20 in A minor Book II } .....Bach

and all of the following:—

Sonata in A flat, Op. 110.....Beethoven
Ballade in B major and minor, Op. 10 No. 3.....Brahms
Idylle (pub. Enoch, Paris).....Chabrier
Chelsea Reach.....John Ireland
(Augener)

(For Violin, Violoncello, Singing, Organ, etc., the requirements are those of the Semi-final Performer.)

Viva Voce.

Questions will take the following form:—

(1) On the position and action of hands, arms and fingers and on the use of the pedal.

(2) On the teaching of scales (in single notes) and arpeggios. (N.B. In Nos. 1 and 2 no arbitrary or doctrinal opinion will be held by the examiners. Any good method will be acceptable.)

(3) To finger certain technical passages presented by the examiner to the candidate.

(4) Questions will be asked on the general outlines of form shown in the pieces and on the contents of "The Growth of Music"—Part 3 by H. C. Colles, published by the Oxford University Press.

N.B.—Outline of questions likely to be asked in connection with Violin, Violoncello, Singing and Organ may be obtained from the Secretary of the Conservatorium.

6. Second Study.

The requirements are similar to those of the Senior Grade of the local examinations.

If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

THIRD EXAMINATION (FINAL)
(Written Examination)

1. Harmony in not more than four parts. (Choral and Instrumental)
2. Counterpoint (strict and free) in not more than four parts.
3. Fugal Exposition in three parts.
4. History of Music from earliest times to A.D. 1600.
5. Form and Analysis.
6. A paper on elementary Physiology of the Voice or on Acoustics.
7. A paper on the Art of Teaching of the candidate's chief subject.

Special Note.—This paper will consist of *set questions* based on the following:—

Candidates will be required to give names of Studies and Pieces with their Composers from classical or standard work, of different degrees of difficulty suitable for special purposes.

To answer questions on method and procedure in teaching.

To finger and phrase given passages, give breathing indications, etc.

Questions on Rhythm, Technique.

To give outlines of work for specific periods of Study.

Memorization and Appreciation.

To show such general knowledge, both musical and technical, as might be expected of a reasonably equipped music teacher.

FINAL EXAMINATION
(Professional Instructor)

VIVA VOCE EXAMINATION

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

PIANOFORTE

1. (a) To answer questions on the teaching of double notes (3rds and 6ths) and double octaves, legato and staccato.
   (b) To answer questions on:—
   Production of tone.
   Phrasing.
   The playing of ornaments.
   Interpretation.
   Use of the pedals.
   (c) To finger certain technical passages presented by the examiner to the candidate.
   (d) To show an adequate knowledge of pianistic literature.
   (Questions here will embrace the works of Bach, Beethoven, Chopin, Schumann, Brahms, Debussy and Ravel.)

N.B.—Books recommended for reading "Technique and Expression" Franklin Taylor (Novello), and "Musical Interpretation" Tobias Matthay.

The History of Pianoforte Music (Westerby) and the various volumes of "The Pilgrim Series" (Oxford University Press).

2. Candidates must be prepared to play the following:—

(a) Suite No. 2 in F (Tonmeister Ed.) ..... HANDEL

or

French Suite No. 1 in D minor ..... BACH

or

Prelude and Fugue in A minor (Book I) ..... BACH

(b) Sonata No. 23 in C (The English) (Augener) ..... HAYDN

or

Sonatas—Op. 28 (in D major), or
Op. 31 (in E flat), or
Op. 78 (in F sharp major) } ..... BEETHOVEN

or

Sonata in E minor Op. 7 ..... GRIEG

(c) Capriccio—Op. 76 No. 1
Op. 76 No. 2 } Any two ..... BRAHMS
Op. 76 No. 8

or

Fantasies Op. 116 (any two) ..... BRAHMS

or

Ballade Op. 118 No. 3 (G minor) ..... BRAHMS

or

Intermezzo Op. 119 No. 2 ..... BRAHMS

(These are all in the Brahms volume Book 2 published by Peters.)

(d) Christmas Pastoral (transcribed by Clarence Lucas).....BACH
(Oxford University Press)

and one of the following:

Nocturne No. 5 in F sharp
Nocturne No. 18 in E } .....CHOPIN

Zigeuner-Novelle Op. 38 No. 3.....POLDINI

The Scarlet Ceremonies (from "Decorations")....JOHN IRELAND
(Augener)

Variations on a Lettish Theme Op. 6.....JOSEPH WIHTOL

(e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN

1. To demonstrate method of finger-training and bowing, posture and fingering, also to finger and bow certain passages, if required.
2. Should the Examiner desire it, the candidate must be prepared to give a student (who is not a pupil of the candidate) a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.
3. To differentiate between mechanical and æsthetic expression.
4. To show ability to accompany on the pianoforte.
5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORELLO, RODE, ROVELLI and GAVINES.
6. Performance.
   (a) Any of the ten
   Sonatas for Violin and Pianoforte.....BEETHOVEN
   or Sonata in A minor (Op. 105).....SCHUMANN
   or Sonata in A (Op. 100).....BRAHMS
   (b) Any one of the following Concertos may be selected by the candidate:—
   BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAENS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.
   (c) Romance in E minor.....SINDING
   or
   Havannaise.....SAINT-SAENS
   or
   Rhapsodie Piedmontèse.....SINAGAGLIA
7. Sight Reading Test.

VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play:—

Nos 11, 16 and 20 Studies.....DUPORT

And any two Studies.....DOTZAUER

(From 24 Daily Studies)

Any one of the five Sonatas (selected by the candidate)..BEETHOVEN

To show a general knowledge of the Six Suites.....J. S. BACH

Symphonic Variations.....BOËLLMAN

Romance.....WAGNER-POPPER

ORGAN

1. To demonstrate method of instruction for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.

2. To answer questions as to the causes of difference of tone between the various stops.

3. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.

4. To be prepared to play one of the following groups and one piece of his own choice:—

   (a) Sonata No. 2 in C minor.....BACH
   (Book IV Novello)
   Chorale in A minor.....FRANCK
   Psalm Prelude No. 1.....HOWELLS
   (Novello)

   (b) Sonata No. 5 in C major.....BACH
   (Book V Novello)
   Prelude on Jesu, meine Freude—(Op. 65—No. 38)...KARG-ELERT
   Largo Sostenuto (from a Sea Symphony)..VAUGHAN WILLIAMS
   (Stainer & Bell)

   (c) Chorale Prelude—Herr Jesu Christ, dich zu uns wend.....BACH
   Sonata No. 1.....MENDELSSOHN
   Prelude on Vexilla Regis.....BAIRSTOW
   (Augener)

5. Sight Reading Test.

6. To extemporize and transpose.

SINGING

1. To demonstrate method of instruction in proper methods of breathing, tone, attack, evenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.

2. To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.

3. In passages given by the examiner, to phrase or insert breath marks.

4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—

   (a) BACH, HANDEL, MOZART, BEETHOVEN, SCHUBERT, SCHUMANN.

   (b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.

   (c) BALAKIEREFF and DEBUSSY, DELIUS, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, RAVEL.

   (d) Any Folk Song from "A Selection of Collected Folk Songs" arr. by C SHARP and VAUGHAN-WILLIAMS (Novello).

5. Sight Reading Test (Vocal).

LICENTIATE IN MUSIC—CLASS D (SCHOOL TEACHER)

PREREQUISITE FOR THE COURSE LEADING TO THIS DIPLOMA TO BE:

Completion of all the requirements for Associate Diploma—Class C. (See page 672)

COURSE LEADING TO THE EXAMINATION TO BE IN THREE PARTS:

1. Theoretical Work.
2. School Music.
3. Practical Work.

1. THEORETICAL WORK
   (a) Harmony in not more than four parts.
   (b) Counterpoint (strict and free) in not more than three parts.
   (c) Fugal Exposition in three parts.
   (d) History of Music from the earliest time to 1600.
   (e) Form and Analysis.
   (f) Simple instrumentation for High School Band.

2. SCHOOL MUSIC
   (a) Philosophy of Music in Education.
   (b) Important developments in history of Music in Education.
   (c) The future of Music in Education.

(d) Co-ordinating school choral, instrumental and dramatic enterprises.

(e) School concerts: organization and operation, personnel, etc.

(f) Community projects of an extra-mural character.

(g) High School elective music courses, methods and materials.

3. Practical Work

(a) Ability to play prepared piece (elementary standard) on brass wind instrument.

(b) Preparation of school concert and public performance with examiner present.

DIPLOMA OF ASSOCIATE IN MUSIC

(For Fees, see page 646)

There are three classes of this Diploma.
Class A—Performer.
Class B—Professional Instructor.
Class C—School Teacher.

The requirements are:—

Class A—Practical—Semi-final Licentiate (Performers' Class) (see pages 652 to 657).

Theoretical: Senior Grade Local Centre Examinations (see page 681).

Class B—Practical: Highest Grade Local Centre Examinations (see pages 682 and 683).

Theoretical: Highest Grade Local Centre Examinations (see pages 680 and 681).

In addition questions on teaching will be asked.

Class C—School Teacher.

First Year.

Ability to play the pianoforte is a prerequisite to this Course (Minimum—McGill Conservatorium Local Centre Examinations—Junior Grade).

Course leading to the examination to be in three parts:

1. Theoretical Work.
2. School Music.
3. Teaching.

1. THEORETICAL WORK.

(a) Harmony in three and four parts: Up to chords of the major and minor dominant ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured bass, the completing of a harmonic sentence from a given pattern); the writing of a short passage introducing specified chords.

(b) Counterpoint in two parts: (all 5 species).

(c) Analysis, together with elementary knowledge of form, questions being based upon the candidate's previous study of the pieces in the current year's Highest Grade, List A, Pianoforte Book—a copy of which will be provided for the candidate in the examination room.

(d) History—Outlines of Musical History.

(e) Musical Dictation: A short and simple melody (one part only).

2. SCHOOL MUSIC

(a) The function of music in education.

(b) Scope of child's voice in Primary, Elementary and Secondary School classes.

(c) Scope of courses in music for Primary, Elementary and Secondary School classes.

(d) Teaching methods for:

i. Introduction to vocal reproduction of musical sounds.
ii. Pitch symbols for tonic sol fa notation.
iii. Transition from tonic sol fa to staff notation.
iv. Introduction to "time" in music (note lenghts) t.s.f. names.
v. Keys and key signatures.
vi. Ear Training, Grade I to Grade VII.
vii. Sight Singing.
viii. Tone.
ix. Integration of written work and singing.

3. TEACHING

Minimum of 30 hours practice or regular teaching in School Music under supervision. (Candidates suitably qualified may secure partial or complete exemption from this requirement).

Students of McGill University School for Teachers who have satisfied their examiners in subjects under the second unit of the first year (School Music) will be exempt from further examination in those subjects.

ASSOCIATE IN MUSIC—CLASS C—SCHOOL TEACHER

Second Year (Final)

Course leading to the examination to be in four parts.

1. Theoretical work.
2. School Music.
3. Practical work.
4. Teaching.

1. Theoretical Work
   - (a) Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
   - (b) Counterpoint in two parts (All 5 species).
   - (c) Musical History—1600-1900.
   - (d) The principles of Form and Analysis.

2. School Music
   - (a) Course planning in School Music.
   - (b) Music appreciation in Elementary Schools.
     - i. Scope.
     - ii. Approach.
     - iii. Methods.
     - iv. Materials.
   - (c) Extra-curricular activities: choir, small vocal ensembles, operetta, instrumental, listening groups, music library, assemblies:—
     - i. Aims.
     - ii. Methods of organization.
     - iii. Methods of operation.
     - iv. Integration with after-school activities.
   - (d) Teaching of choral work:
     - i. Introduction to part singing.
     - ii. Intonation.
     - iii. Diction.
     - iv. Phrasing.
     - v. Interpretation.
   - (e) Class Management.
   - (f) Inter-staff Relations.
   - (g) Equipment.

3. Practical Work
   - (a) The use of the baton in directing specified gramophone recordings in simple and compound times.
   - (b) Ability to sing first, second or third part of specified part songs, against piano playing different part.
   - (c) Ability to play prepared piece (elementary standard) on a reed instrument.

     N.B.—List of pieces will be issued prior to examination.)

4. Teaching

Minimum of 30 hours practice or regular teaching in school music, and the direction of an open performance of a school choral group. (Candidates suitably qualified may secure partial or complete exemption from these requirements).

LOCAL CENTRE EXAMINATIONS IN MUSIC

(For Centres with Hon. Local Representatives, see pages 676 to 679)

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it grants Degrees in Music and Diplomas of Associate and Licentiate in Music, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Mr. Douglas Clarke, Dean of the Faculty of Music and Director of the Conservatorium.

GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 677 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local hon. representatives or local hon. secretaries. (See pages 676 to 679.)

2. A local representative of McGill University will supervise the conduct of the theoretical examination at each centre. All papers will be sent to McGill University itself.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the school. (See page 720.)

5. Similar arrangements may be made with regard to Class Singing. (See page 721.)

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, which must, however, reach him at least five days before such examination, to transfer a candidate to the next examination without further fee.

7. Examinations will be arranged by the Secretary when required and new centres formed.

ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Preparatory grade and leading on through the Diploma examinations for Associate and Licentiate of Music to that for the Degree of Mus.B.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use music of a lower grade at the beginning of the winter, and should not begin too early with the actual pieces selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations are held throughout the Dominion about May 1st. No definite date is assigned but the examinations will be held during the first week in May. Due notice will be given to the Local Hon. Secretaries. Candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, if unsuccessful in the latter, can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge for this supplemental examination is found under fees on page 680.

2. Practical examinations are held during May, June and July.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, *must reach the Secretary in Montreal on or before April 1st, 1945.*

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks in each practical and theoretical subject is 100, of which 60-69 is "Pass", 70-79 "Honours"; 80-89 "Distinction", 90-94 "High Distinction", 95-100 "Very High Distinction".

7. No special text.books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. For the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from various local music dealers.

8. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

9. Candidates entering for practical subjects must, in all grades except the three last (Elementary, Primary and Preparatory), work a theory paper of the preceding lower grade before the practical certificate will be released.

10. Only one candidate at a time is allowed to be in the examination room for practical examinations.

11. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only to accompany the songs and pieces.

12. The examiner's decision is final, and cannot be reconsidered.

13. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificates must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate, if required.

14. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diplomas of Associate and Licentiate in Music, should they at a later date decide to proceed to the higher examinations for those diplomas.

LOCAL CENTRES

The following places have been adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, are held at these centres.

Amherst.....Hon. Representative: The Rev. H. C. Olsen.
Hon. Secretary: Mrs. Geo. R. Shiers, 35 Robie St.

Assiniboia.....Hon. Representative: The Superintendent of Schools.

Aylsham.....Hon. Representative: The Rev. L. E. Anderson.
Hon. Secretary: Mrs. R. S. Valleau, Moose Range, Sask.

Brandon.....Hon. Representative: Principal of Brandon College Institute.

Brockville.....Hon. Representative: The Rev. J. G. Sparling.
Hon. Secretary: Mrs. M. MacOdrum, West Pine St.

Calgary.....Hon. Representative: A. Calhoun, Esq., City Librarian, Public Library.

Campbellton.....Hon. Secretary: Miss Laura Alford.

Campbell's Bay.....Hon. Representative: Rev. E. T. MacNally.
Hon. Secretary: Sister Philippe, St. Joseph's Convent.

Chapeau.....St. Joseph's Convent.

Charlottetown.....Hon. Representative: H. H. Shaw, Esq., B.Sc.
Hon. Secretary: Miss E. Lillian McKenzie, Mus.B. (McGill), 15 Grafton Street.

Cookshire.....Hon. Representative: The Rev. W. T. Gray.
Hon. Secretary: Miss E. J. Ball.

Cranbrook.....Hon. Representative: Principal of the High School.
Hon. Secretary: Mrs. D. Finlayson.

Edmonton.....Hon. Representative:

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Hon. Secretary: Mrs. Anna P. Thomson.

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Hon. Secretary:

FEES FOR LOCAL EXAMINATIONS

1.—Theory of Music (when taken as a Special Subject)

Highest Grade	$9.00
Senior Grade	5.50
Intermediate Grade	4.00
Junior Grade	3.00
Elementary Grade	2.00

2.—Practical Subjects

Highest Grade, *including fee for Senior Theory*	$12.00
Senior Grade, *including fee for Intermediate Theory*	10.00
Intermediate Grade, *including fee for Junior Theory*	7.50
Junior Grade, *including fee for Elementary Theory*	6.00
Elementary Grade	3.50
Primary Grade	2.50
Preparatory Grade	1.00
Duet Playing examination covering both entrants	1.50

3.—Supplementary Theoretical Examination

Fee for three highest grades (each paper)	$2.00
Fee for the two lowest grades	1.50

4.—General School Examination

Fee, $20.00 for first hour and $10.00 for each succeeding hour. (One examiner.)

5.—Class Singing Examination

Fee, $10.00 per class. (One examiner)

LOCAL CENTRE EXAMINATIONS IN THEORETICAL MUSIC

These examinations are divided into five grades, and Certificates in each grade will be awarded to successful candidates.

HIGHEST GRADE.—Harmony in four parts, up to chords of the major and minor dominant ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured and unfigured bass, the completing of a harmonic sentence from a given pattern); the writing of a short passage introducing specified chords. The candidate will be required to take down from dictation a short and simple melody which will be played three times;

Counterpoint in two parts; Analysis, together with elementary knowledge of form, questions being based upon the candidate's previous study of the pieces given in this year's Highest Grade, List A, Pianoforte Book (a copy of which will be provided for the candidates in the examination room), and the outlines of musical history. The examinations in this grade consist of two papers. One paper deals with Harmony and Counterpoint, and the other with History of Music, and Analysis and Form.

SENIOR GRADE.—More advanced questions on the work specified for the Intermediate Grade. A knowledge of musical ornaments or graces and of syncopated time, analysis of given chords or passages and the harmonization of an easy melody and of an unfigured bass. Candidates will also be required to write an original tune of from four to eight bars and indicate the harmony by figuring and directs; to add a contrasted tune to one given, and to *add* phrase marks. *Care should be taken, in writing the tune, to avoid the interval of an augmented 4th and to obtain a judicious mixture of conjunct and disjunct movement. In harmony questions generally candidates should consider the possibility of introducing the supertonic chord.*

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass.

INTERMEDIATE GRADE.—A knowledge of the C clefs, the transposition of a given passage, the barring (and pre-fixing of time and key signatures) of given passages and (in both original and inverted positions) triads, common chords, chords of the dominant seventh with resolution on the tonic chord and chords of the augmented 6th. In addition to the above, the harmonization by means of simple chords in three or four parts of short phrases with either melody or figured or unfigured bass or both is given. Candidates are required to write a tune of their own of from four to eight bars and add another to it, so as to produce a piece of flowing 2-part writing. They are also required to analyse the chords in a given passage, and point out errors of part-writing or poor chord construction in a given passage.

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass. (See special note regarding melody and harmony questions under Senior Grade.)

JUNIOR GRADE.—Transposition from treble to bass and vice versa, the more extreme key signatures and scales, marks of expression, including the translation of Foreign terms into English and vice versa, a knowledge of triads, technical names of notes for scale degrees, intervals and their inversion, grouping of incorrectly grouped notes according to the time signature used.

ELEMENTARY GRADE.—The following are the requirements:—A knowledge of staves, G and F clefs, notes, dots, rests, leger lines, time-signatures, key signatures (major and minor), writing scales, the more common marks of expression, easy intervals, and the writing of two simple tunes, each of two bars, on a given pattern; the tunes should have some character. Completing bars with notes or rests.

N.B.—Specimens of examination papers used for all Grades during the last ten years can be obtained from the Secretary of McGill University Conservatorium at 10 cents per copy of each grade.

Special Note:—Leaflets have been specially prepared as a guide on certain points for the use of teachers preparing candidates for the theoretical examinations. These will gladly be sent to anybody interested.

LOCAL CENTRE EXAMINATIONS FOR CANDIDATES IN PRACTICAL SUBJECTS

PIANOFORTE

See requirements and table of marks at the end of this section on Pianoforte regulations.

Official books, containing the pieces required for the Pianoforte Examinations in all the seven grades of the local examinations, can be obtained, either from the Secretary, McGill University Conservatorium of Music, Montreal, or from any music dealer in the Dominion.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 680*).

1. *Scales.*

Major, minor (both forms) and chromatic, in all keys, in similar and contrary motion, at the octave, third, sixth or tenth, with staccato or legato touch, and beginning from either the highest or lowest note, as may be required; major and minor scales also in similar motion in double octaves in all keys.

2. *Arpeggios.*

Common chords, dominant 7ths and diminished 7ths, in all positions at the interval of an octave only, starting on the highest or lowest note with staccato and legato touch.

NOTE:—Scales and arpeggios should be played at as fast a speed as is consistent with clarity and accuracy and without group accentuation.

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval above or below any given note which may be struck by the examiner; to say whether a common chord is major or minor, and to recognize the chord of the dominant 7th in its root position when it is struck.

A rhythmical test is also given (which the candidate is required to tap or sing) as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

4. *Reading at Sight.*

Candidates must be prepared to read a test which will be of about the same difficulty as the pieces set for prepared work in the Intermediate Grade.

5. *Prepared Work.*

The whole of either List A or List B published in separate books, and referred to on page 681, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music, in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

Questions will be asked on the form, modulations, and marks of expression, etc., found in the pieces. In connection with the questions on form candidates are recommended to read Macpherson's "Form in Music" (published by Joseph Williams).

Senior Grade

Before a certificate can be issued to a successful candidate for this examination the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

   All scales in similar motion through four octaves and contrary motion through two octaves, including chromatic scales, played legato at the rate of about 4 notes to M.M. 120, and played staccato at about M.M. 90, beginning with the highest or lowest note as required and at the octave only. Also all scales in 3rds in similar motion only. All scales must be played forte or piano as required.

2. *Arpeggios.*

   All major and minor common chords through four octaves, also dominant and diminished 7ths, time to be about 4 notes to M.M. 100 played legato and M.M. 72 played staccato. These arpeggios, also to be played in the inversions if required, at about 4 notes to M.M. 72. All arpeggios must begin from the highest or lowest note as required and be played forte and piano.

3. *Ear Tests.*

   Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. Candidates will be required to sing or hum *any one* of three notes played together, and also a short phrase played by the examiner.

4 *Reading at Sight.*

   The music will not be more difficult than the pieces set for the Junior Grade.

5. *Prepared Work.*

   The whole of either List A or List B published in separate books, and referred to on page 682, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the key, time and meaning of signs used in the pieces prepared by the candidate. In addition an intelligent musical understanding of the pieces is expected such as simple elements of construction.

Intermediate Grade

Before a certificate can be issued to a successful candidate for this examination, the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

   Major and minor (both forms) in all keys, also chromatic scales through four octaves, each hand separately and both together in similar motion, beginning either on the lowest or highest note legato and staccato, speed to be about 4 notes to M.M. 92 legato and M.M. 72 staccato, piano and forte.

2. *Arpeggios.*

   All major and minor common chords, with inversions, through four octaves, separately and together, beginning from either the highest or lowest note.

3. *Ear Tests.*

   To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. Candidates will be required to hum or sing a short phrase played by the examiner.

4. *Reading at Sight.*

   A test consisting of music of about the same difficulty as the pieces set for the Elementary Grade.

5. *Prepared Work.*

   The whole of either List A or List B, published together in one book, and referred to on page 681, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the time, key and meaning of signs used in the pieces prepared by the candidates.

Junior Grade

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales.*

   Major and minor (both forms, harmonic and melodic, but the latter only hands separately) and chromatic scales in similar motion only, in all keys through two octaves, beginning from either highest or lowest note and played forte or piano with separate hands and both hands as required, at a speed of about 4 notes to each M.M. 80.

2. *Arpeggios.*

   Extended arpeggios of common chords in all major and minor keys in root position through two octaves, each hand separately and together.

3. *Ear Tests.*

   To name by interval or note (as candidates prefer) with middle C, G, or F as given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

   A test is set of which the difficulty will be similar to that of the pieces in the Primary Grade.

5. *Prepared Work.*

   The whole of either List A or List B, published together in one book and referred to on page 681, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the various marks of expression and as to the key and time of the various prepared pieces.

Elementary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*

The major scales of C, G, D, A, F, B flat and E flat, and their relative minors (harmonic form only), with separate hands and both hands through two octaves, beginning with highest or lowest note, also piano or forte, as required, at a speed of about two notes to each M.M. 88.

2. *Arpeggios.*

Major and minor, the same keys as the above scales, each hand separately, through two octaves, in root form only.

3. *Ear Tests.*

With any note chosen by the examiner about the middle of the keyboard as the lowest note, to distinguish between the major or minor 3rd, perfect 5th and perfect octave from that note.

4. *Reading at Sight.*

Two easy tests will be given, one for the right hand alone and one for the left hand alone.

5. *Prepared Work.*

The whole of either List A or List B, published together in one book, and referred to on page 681, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

Two or three easy questions will be asked on the marks of expression, key and time of the pieces prepared, also as to the values of the notes and rests and the signatures.

Primary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*

Major scales, C, G, D, F and B flat, and their respective relative minors, in harmonic form only, with one hand at a time through two octaves, beginning with the lowest note at a speed of (a) one note to each M.M. 100, (b) two notes to each M.M. 100.

2. *Arpeggios.*

Major form only, 2 octaves, starting from the lowest note, hands separately, in root form only in keys of C, G, D, F and B flat.

3. *Prepared Work.*

The whole of either List A or List B, published together in one book, and referred to on page 681, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

4. *Questions.*

A few questions will be asked on the notes and rests found in the prepared pieces.

Marks

The following system is adopted:—

	Primary	Elementary Junior and Intermediate	Senior and Highest
Scales	13	13	15
Arpeggios	13	13	15
Accuracy as regards Notes and Rests and correct system of Fingering	14	14	..
Tempo (including in the higher grades, if piece demands it, Tempo Rubato)	10	10	..
Expression (including in the higher grades use of pedals)	10	10	12
Touch, Rhythm, Phrasing and Accent and Interpretation	12	12	28
Reading at Sight	..	12	12
Ear Tests	..	10	10
Questions	6	6	8
Proper position of hands and arms	12	..	..
Movement of fingers	10	..	..
	100	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

Preparatory Grade

This is now the earliest examination which it is possible to take in the Local Centre Examinations. There is no theoretical examination.

The candidates will be required to play:—

(1) Short exercises, for separate hands, to illustrate legato playing and phrasing.

(2) Four short pieces for both hands.

(3) Scales C.G.F., major form only, hands separately, two octaves.

(4) Ear Tests.

This examination is designed to meet the needs of beginners studying privately as well as those taking the first year course in Pianoforte Class Instruction in schools.

All the music, with specimen ear tests, is published by McGill University and can be obtained in one volume, price 15c.

MARKS

Scales	15
Exercises	15
Pieces	40
Ear Tests	30
	100

Leaflets showing alternative requirements based on the Oxford Piano Course and the Kammerer (1st and 2nd years) may be obtained from the Secretary.

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

EXAMINATION IN PIANOFORTE DUET PLAYING

In order to encourage the mutual making of music and to stimulate the interest of young performers, examinations are held in pianoforte duet playing in the Elementary Grade. The requirements are:—

(1) The playing of two or three simple duets of Elementary Grade difficulty.

(2) The major scales of G, F and D played as duets through two octaves. The players will play together one hand at a time (starting two octaves apart) and two hands together (starting one octave apart).

(3) Ear Tests. Simple rhythmical tests will be given. For instance, a tune of one bar will be played and the candidates will tap (together) the rhythm. The examiner will then play a short and easy passage having one chord to a beat and the candidates will be required to clap the beats during the playing. (The test will be played over first.) Candidates will also be required to hum or sing a passage of about 6 notes, equal in length, which will be played over three times on the pianoforte.

(4) Questions on the notes and rests will be asked, also on the times and keys of the prepared pieces.

(5) Sight-reading. Candidates will be required to read a very simple duet, one hand only to each part.

Fee (covering both entrants) $1.50. Only one application (with names, etc., of both candidates) need be sent in.

MARKS FOR DUET PLAYING EXAMINATION

Scales	20
Accuracy as regards Notes and Rests and correct system of fingering; sight-reading	30
Touch, Rhythm, Phrasing, Accent and Expression	20
Ear Tests	20
Questions	10
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

VIOLIN

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

All major and both forms of all minor scales (three octaves). The chromatic scales of C (two octaves) beginning on the G string and E beginning on the D string. Slurred and detached bowing.

2. *Arpeggios.*

In all major and minor keys through three octaves, one note to a bow, and slurred (one bow ascending and one descending).

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic intervals which may be struck by the examiner above or below the given note; to be able to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root-position when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the violin after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

(a) Three Studies:—Candidates may choose any one of Kreutzer's Etudes between Nos. 23 and 42 inclusive, and also any one of Rode's Caprices and also any one of Fiorillo's Etudes.

(b) Concerto No. 19.....KREUTZER
or Concerto in E minor.....NARDINI
or La Folia.....CORRELLI-LÉONARD
or Sonata in E minor.....VERACINI

(c) Sixth Partita in E major, for violin alone.....BACH
(First movement only)

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

B flat major and G major and
B flat minor and G minor (both forms) through three octaves. Slurred and detached bowing.

2. *Arpeggios.*

Three octaves in the keys of B flat major and B flat minor and G major and minor.

(a) One note to each bow.

(b) Three notes slurred to each bow.

(c) Six notes slurred to each bow.

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave, above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate will be required to tap or sing) as well as a melodic test which the candidate must hum, sing, or play on the violin after examiner.

4. *Reading at Sight.*

The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.*

Studies.

No. 18, Thirty Special Studies, Op. 36.....MAZAS
No. 10.....KREUTZER
No. 15.....FIORILLO

Pieces.

Concerto No. 23, First or Last Movement.....VIOTTI
or Sonata in G minor.....TARTINI
or any one of Six Sonatas.....HANDEL

6. *Questions.*

Questions will be asked as to the key, time, and meanings of signs used in the prepared work.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must be passed (*See page 681*).

1. *Scales* (from memory). See footnote on page 693.

G major and G minor and A major and A minor through 3 octaves. Minor scales to be played in both forms. Detached and 3 notes to a bow.

2 *Arpeggios.*

Three octaves in the following keys:—G major and minor, A major and minor.

(a) One note to each bow.

(b) Three notes slurred to each bow.

Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Reading at Sight.*

A test consisting of music of about the same difficulty as pieces set for the Elementary Grade.

4. *Ear Tests.*

To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

5. *Prepared Work.*

Studies.

No. 7 of Thirty Special Studies, Op. 36.....MAZAS
Nos. 21 and 29, Op. 20.....KAYSER

Pieces.

Second Concertino, Op. 14 (published by Schott)....R. ORTMANS
or Concertino, Op. 31, 1st or Last Movement.....SITT
or Concerto No. 3, Op. 12, 1st Movement.....SEITZ
or Concerto No. 4, 1st Movement.....SEITZ
or Concerto in A minor.....VIVALDI

6. *Questions.*

Questions will be asked as to the time and the meaning of signs used in the pieces prepared.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales* (from memory). See footnote.

Two octaves of the following:—

C major and minor, 2nd position. B flat major and minor in 2nd position. D major and minor in 3rd position and in 4th position. Minor scales to be played in both forms.

(a) One note to each bow.
(b) Two notes slurred to each bow.

2. *Arpeggios.*

Two octaves in the following keys: G major and G minor, D major and D minor.

(a) One note to each bow.
(b) Three notes slurred to each bow.

Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G, or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

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*N.B.—Ritter's Violin Scale Book may be used in preparation for this grade as well as those below it.

4. *Reading at Sight.*

An easy test is given about the difficulty of the pieces in the Primary Grade.

5. *Prepared Work.*

Studies.

Nos. 9, 12, Op. 20 ..... KAYSER
No. 42, Op. 32, Book 3 ..... SITT

Pieces.

First or last movement, Sonatina No. 3 ..... R. HOFMAN
(Carl Fischer)

or Allegro entusiastico ..... PUGNANI-MOFFAT
(Carl Fischer)

or Fragment of a Sonata ..... DANCLA
(Carl Fischer)

or Melody ..... LULLY-SPALDING
(Carl Fischer)

6. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and the time of the prepared pieces.

ELEMENTARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 693.

G, A and B (major and minor) in two octaves, 4 notes to each bow.

2. *Arpeggios.*

G major and G minor, in first position only, through two octaves.
(1) One note to the bow.
(2) Three notes to the bow.
(Minor Scales in melodic form only.)

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

A very easy piece is given.

5. *Prepared Work.*

Studies.

No. 1, Op. 20 (played with four different bowings).....KAYSER
No. 7, Op. 20.....KAYSER
Concertino in first position, Op. 93.....HANS SITT
First or last movement.
or Concertino, No. 5—Op. 22.....SEITZ
or Concertino in B minor, Op., 35 (in first position)....RIEDING
or any two of "Four Easy Pieces".....DUNCAN-RUBBRA
(Oxford Univ. Press)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression, time of pieces and studies, and on key signatures.

PRIMARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 693.

Scales in G major and minor, and A major and minor in two octaves, also D major and minor and F major in one octave, one note to each bow.
(Minor Scales in melodic form only.)

2. *Prepared Work.*

Studies.

Violin Method, Op. 6, Part 2, No. 13.....SEVČIK
or Exercise No. 2, Op. 74, with different bowings.....WOHLFARTH
Pieces.
Theme with Variations, Op. 57.....PAPINI
or Prière, Op. 22, No. 4 (Bosworth Ed.).....RIEDING
or Mazurka.....HERBERT KINGSLEY
or Marche Militaire.....ADAM CARSE
(Published by Joseph Williams)
or Valsette, Op. 33, No. 2.....JOSEPH BLOCH
or A Bed-time Song.....GORDON JACOB

3. *Questions.*

Questions will be asked on the notes and rests found in the prepared pieces.

4. *Ear Tests.*

With any note chosen by the examiner about the middle of the keyboard as the lower note, to distinguish between the major or minor 3rd, perfect 5th, and perfect octave from that note.

Marks

In all the Grades with the exception of the Primary, the following system of marking is adopted for Violin, Viola and Violoncello:—

Posture	5
Scales and Arpeggios	12
Technical Studies and Exercises	10
Bowing	8
Accuracy of Notes and Rests	8
Tone Production	10
Intonation, including Tuning	8
Rhythm, Phrasing, Accent and Gradation of Tone	10
Tempo (including in higher grades, if piece demands it, Tempo Rubato)	5
Questions	6
Ear Tests	10
Sight Reading	8
Total	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

In the Primary Grade, Sight Reading is not required; the marks allotted to this are distributed as follows:—

Accuracy of Notes and Rests	10 instead of 8
Rhythm, Phrasing, Accent and Gradation of Tone	14 instead of 10
Strictness of Time and Choice of Tempo	7 instead of 5

In every other respect the marking is as in above schedule.

VIOLONCELLO

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

   Major and minor scales in all keys through three octaves (minor scales in melodic form only).

2. *Technical Studies.*

   Nos. 2 and 21 Exercises for Violoncello ..... J. L. Duport
   (a) Four notes slurred to each bow.
   (b) Spiccato, one note to each bow.

.3 *Ear Tests.*

Candidates must be able to name either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note; to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root position, when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the 'cello after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test, which will be about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

Nos. 32, 33, 35 and 36 from Progressive Studies for the Violoncello.....WHITEHOUSE

or

Study No. 7 (Litolff Ed.).....J. L. DUPORT

and

Study Nos. 1, 4 and 6 (Berners Ed. No. 102a).....A. H. EARNSHAW

Pieces.

Andante from Sonata in A minor.....BOELLMANN

Allegro appassionato.....C. SAINT-SAENS

or

Sonata in G major (Ed. Simrock).....J. B. BREVAL

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

All major and minor scales compass two octaves (minor scales in melodic form only).

(a) Detached.

(b) Slurred, 2, 4 or 8 notes to a bow.

2. *Technical Studies.*

Studies Nos. 5 and 7 (Berners Ed. No. 102a).....A. H. EARNSHAW

or

Any Two Studies.....WILLEM WILLERKE

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals, within the limits of an octave, above or below, any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

4. *Reading at Sight.*

The music given will be about the same difficulty as the pieces set for Junior Grade.

5. *Prepared Work.*

Nos. 28, 29, 30 and 31 from Progressive Studies for the Violoncello ..... WHITEHOUSE

Any two of "Six Airs arranged for 'cello" ..... J. BARBIROLLI (Oxford University Press)

Berceuse, Op. 14 (published by Fromont) ..... DUNKLER

Berceuse (published by Hawkes & Son, London) ..... W. ALCOCK

Elegie ..... G. FAURÉ

6. *Questions.*

Questions will be asked on the form, modulation and marks of expression in the pieces prepared.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales* (from memory).

In all the major and minor keys through two octaves.

(a) Detached.

(b) Slurred, two notes to a bow.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

3. *Reading at Sight.*

A test consisting of music about the same difficulty as the pieces set for the Elementary Grade.

4. *Prepared Work.*

Studies.

Any two advanced studies.....DOTZAUER
Nos. 1 and 2 (Litolff Edition, No. 1520).....MERK
No. 9—Exercises (Litolff).....DUPORT
or Nos. 19, 20, 22, 24, 25 and 27 from Progressive Studies for the Violoncello.....WHITEHOUSE

Pieces.

Melodie, Op. 14 (Augener Edition No. 7709).....W. H. SQUIRE
Aubade Humoresque, Op. 39, No. 2.....ROBERT C. MARTIN
(Published by Leduc, Paris)
L'Abeille.....SCHUBERT
or any two of 12 Easy Pieces, Op. 4.....ARNOLD TROWELL
(Schott)

5. *Questions.*

Questions will be asked as to the time, key, and meaning of signs used in the pieces prepared by the candidates.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales* (from memory).

The major scales of E, A, D, A flat, E flat and B flat, and the minor scales of C sharp, F sharp, B, F, C, and G, through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

3. *Reading at Sight.*

An easy test will be given.

4. *Prepared Work.*

Studies.

Nos. 39 and 51. Studies for the Young Cellist.....L. FEUILLARD
Nos. 33 and 34 from 113 Studies.....DOTZAUER
or Nos. 1, 3, 6 and 9 from Progressive Studies for the Violoncello.....WHITEHOUSE
Gavotte—Op. 5.....W. H. SQUIRE
(Augener Edition No. 7704b)
Meditation.....G. PAPIN
(Ed. Leduc)

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

ELEMENTARY GRADE

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Scales* (from memory).

Major scales of C, G, and D; minor scales of A, E, and B, through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

3. *Reading at Sight.*

A very easy piece will be given.

4. *Prepared Work.*

Studies.

Nos. 11 and 43. Studies for the Young Cellist.....L. FEUILLARD
Nos. 1 and 2 from 113 Studies.....DOTZAUER
or Nos. 11, 12, 16, and 18 from Progressive Studies for the Violoncello.....WHITEHOUSE
Pieces.
Intermezzo—Op. 5.....W. H. SQUIRE
(Augener Edition No. 7704a.)
Reverie.....DUNKLER

5. *Questions.*

Easy questions will be asked as to the notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

In each of these there are only four Grades. The requirements for each Grade can be obtained on application to the Secretary of the Examining Board.

ORGAN

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

All major and minor (both forms), also chromatic scales played at varying degrees of speed.

(a) Pedals only, for one and two octaves.

(b) Manuals only, hands together at 8ve, 3rd, and 6th for three octaves.

(c) One hand and pedals combined, in similar and contrary motion from the octave or unison for one and two octaves.

2. *Technical Studies in Pedal Playing.*

Part II, Section II, Nos. 20-59 inclusive.....Nilson
Part II, Section III, Nos. 8-28 inclusive .....Nilson
(Published by Schirmer)

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note, to say whether the common chord is major or minor and to recognize a chord of the dominant 7th in its root position when it is struck. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.* One of the following groups:—

Chorale on Ein Feste Burg..... BACH
(Novello Book 18)

Postlude and Trio, Nos. 2 and 3 of 6 Preludes and Postludes, 1st set Op. 101.....STANFORD
(Stainer & Bell)

Alleluia.—Final..... BOSSI
(Durand)

or

Trumpet Voluntary in D.....PURCELL
(Ashdown—Modern Recital Pieces for Organ, Vol. 2)

Prelude (only) from Prelude and Fugue in F minor.....BACH
(Novello Book VI or Peters)

Choral Improvisation, "By the Waters of Babylon", Op. 65 No. 12.....KARG-ELERT

or

Nun Komm Der Heiden Heiland.....BACH
(A due bass)
(Book 17 Novello edition, page 49.)

On hearing the first cuckoo in Spring (arr.: Eric Fenby).....DELIUS
(Oxford University Press)

Toccata in D minor from Fantasia & Toccata.....STANFORD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on the form and modulations, and marks of expression, in the pieces prepared; also on chapters 3, 4, 5 and 6 of A. E. Hull's book on Organ Playing (published by Augener).

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See Page 681*).

1. *Scales.*

All major and minor (both forms), and chromatic scales.

(a) Pedals only. C D flat, D E flat, E & F for two octaves.

(b) Manuals only, hands together for three octaves in similar and contrary motion. (Harmonic minor only in contrary motion.)

2. *Technical Exercises.*

Technical Studies in Pedal Playing.....NILSON
Part II, Section II, Nos. 1-9 inclusive.
Part II, Section III, Nos. 1-7 inclusive.
(Published by Schirmer)

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.* One of the following groups:—

Presto from Concerto No. 5 in F.....HANDEL
(Borreman ed. Paris)

2nd Movement 5th Sonata.....MENDELSSOHN
(Any edition)

In Paradisium.....DANIEL-LESUR
(Alphonse Leduc)

or

Evening Hymn on a Ground.....PURCELL
(Cramer)

Prelude and Fugue in C major.....BACH
(Novello, Bk. III, or Peters)

Paean (No. 5 of 5 short pieces)—(O.U.P.).....WHITLOCK

6. *Questions.*

Questions will be asked as to the keys through which the music passes and on marks of expression, etc., found in the pieces; also on chapters 4, 5 and 6 of A. E. Hull's book on Organ Playing. (Pub. by Augener).

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Scales.*

(a) All major, minor and chromatic scales through three octaves (hands together) on manuals, in similar and contrary motion and starting on either highest or lowest note.

(b) Pedals: All major and minor and chromatic scales through one octave.

2. *Technical Studies in Pedal Playing* (Pub. Schirmer).....NILSON
Part II, Section I.

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any other note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

A test consisting of music of about the same difficulty as the pianoforte pieces set for the Elementary Grade.

5. *Prepared Work.* One of the following groups:—

Prelude and Fugue in E minor.....BACH
(Novello, Bk. II, or Peters)

The Holly and the Ivy.....P. C. BUCK
(Year Book Press)

or

Prelude and Fugue in G major.....MENDELSSOHN
(Any edition)

A Folk Tune.....WHITLOCK
(O.U.P., Five Short Pieces)

or

March from Dramma Musica (transcribed by H. Grace Oxford Univ. Press).....BACH
Prelude "Rhosymedre".....VAUGHAN-WILLIAMS

6. *Questions.*

Questions will be asked as to the time and meaning of signs used in the pieces prepared, also on chapters 4 and 5 of A. E. Hull's book on Organ Playing (Published by Augener).

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Scales.*

C, G, D, E, E flat and F in both major and harmonic minor.

(a) Manuals only (hands separately and together) through two octaves in similar motion.

(b) Pedals only. Upper or lower octave, as required by the Examiner.

2. *Technical Studies.*

"The Organ" (Published by Novello).....W. ALCOCK
Pedal Exercises, pages 29 and 32, also pages 49 and 50.
Manual Exercises, pages 40 to 43 inclusive.
Manuals and Pedals, pages 67 to 70 (Nos. 150 to 153 inclusive).

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

An easy test will be given about the difficulty of the pieces in the Primary Grade. (Pianoforte.)

5. *Prepared Work.* One of the following:—

Any one Prelude and Fugue of Book I .....BACH
(Novello)
or
Choral Prelude, "Herzlich thut mich verlangen".....BACH
or
Choral Prelude, "Puer natus in Bethlehem".....BACH
(Novello, Bk. XV and Book XVIII)
and
Any one of A Little Organ Book.
(Year Book Press)
or
Largo (only) from "Largo, Allegro, Aria and 2 Variations"
MICHAEL FESTING
(Ed. Ball—Novello)
or
No. 2 from "Three Preludes on Melodies from the Genevan Psalter".....CHARLES WOOD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

Marks

The following system of marking is adopted in all grades:

Scales and Arpeggios	10
Pedal Exercises	10
Ear Tests	10
Questions	10
Sight Reading	15
Registration	15
Phrasing, legato, musicianship, rhythm	30
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-04. Very High Distinction 95-100.

SINGING

Highest Grade

Before a certificate can be issued to a successful candidate for this grade the Senior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

   See the special set of technical exercises, scales and arpeggios referred to on page 720. Candidates must be prepared to sing all these from memory, without accompaniment, in several keys varying according to the class of voice, using vowel sounds only.

2. *Ear Tests.*

   Candidates must be able to name, by interval or note, any diatonic or chromatic interval above or below a certain given note, within the limits of an octave; also to say whether a common chord is major or minor and to distinguish a dominant 7th chord from a common chord. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

3. *Reading at Sight.*

   One of the tests must be sung either to one vowel throughout, or to solfeggi, and the other tests to the words.

4. *Prepared Work.*

   Studies.

   Soprano or Tenor—Any two from No. 34 to the end.

   First Series of Solfeggios.....Vittorio Ricci

   Alto or Bass—Any two from No. 26 to the end.

   Second Series of Solfeggios.....Vittorio Ricci

Medium Voices—Any two from No. 24 to the end.
Third Series of 45 Solfeggios.....VITTORIO RICCI
or
Any two, from 30 to the end, of 50 Lessons.....CONCONE

Pieces.

NOTE.—*Candidates may transpose their songs to the extent of a tone lower or higher.*

(a) A RECITATIVE and ARIA from any ORATORIO or OPERA. Students will find the following books useful for making suitable selections:—

HANDEL—Twelve songs from the Oratorios, published in separate books for each voice by Novello & Co.

MENDELSSOHN—Solo music from "Elijah," published in separate albums for each voice by Novello & Co.

ROYAL OPERATIC ALBUMS—Published separately for each class of voice by Boosey & Co.

SACRED SONGS—Published separately for each class of voice in the "Imperial Edition," by Boosey & Co. The numbers in this edition are as follows:—Soprano 31, Contralto 42; Tenor 44, Baritone and Bass 32, *or* any Recit. and Aria from the Oxford Series of BACH and HANDEL ARIAS.

(Oxford University Press)

(b) Two songs of contrasted character to be chosen from any two of the following composers:—BRAHMS, SCHUBERT, SCHUMANN, PARRY, STANFORD, SCOTT, IRELAND, SCARLATTI, RACHMANINOFF, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, STRAUSS, JOSEPH MARX, DELIUS. (One modern song should be chosen.)

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection and one Folk Song from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS.

(Novello)

5. *Questions.*

Questions will be asked on the style, modulations, marks of expression, occurring in the pieces prepared, and the candidate must also be ready to answer elementary questions on Physiology of the Voice.

The attention of candidates is drawn to the system of marking and directions printed on page 720.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 720. Candidates must be prepared to sing from memory all those arranged for this particular Grade, without accompaniment, in several keys, using vowel sounds only.

2. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

This test may be sung to one vowel sound throughout, or to solfeggi. A specimen is printed in the set of technical exercises.

4. *Prepared Work.*

Studies.

Soprano or Tenor—Any three from No. 16 to No. 33.
First Series of 50 Solfeggios.....VITTORIO RICCI
Alto or Bass—Any three from No. 13 to No. 23.
Second Series of 40 Solfeggios.....VITTORIO RICCI
Medium Voices—Any three from No. 10 to No. 23
Third Series of 45 Solfeggios.....VITTORIO RICCI

or

Any three (from No. 15 to the end) of 25 Lessons.....CONCONE
Contralto, Baritone and Bass.

or

Any three (from 15 to 40) of 40 Lessons.....CONCONE

or

Any three (No. 10 to end) of 42 Vocalises (Part I).....PANSERON

or

Any three (No. 20 to 50) of 50 Lessons.....CONCONE

or

Any three (from No. 21 to the end) of 30 Vocalises
(Ditson Edition).....SANDERS

Pieces.

(a) One of the easier ARIAS from either an ORATORIO or OPERA contained in the works mentioned in the Highest Grade.

(b) Two songs *of contrasted character* from the following lists:—

[*Candidates may transpose their songs to the extent of a tone lower or higher.*]

For Soprano, Mezzo-Soprano, Contralto

The Bells of San Marie.....JOHN IRELAND
My True Love Hath My Heart.....JOHN IRELAND
Lullaby.....CYRIL SCOTT
The Angel.....WAGNER
The Quiet Night (Nacht und Traüme).....SCHUBERT
Summer Night.....ARMSTRONG GIBBS
Dream in the Twilight (Op. 29, No. 1).....STRAUSS
All Souls' Day (Op. 10, No. 8).....STRAUSS
The Heart Worships.....HOLST
Devon Maid.....FRANK BRIDGE
Christmas Eve at Sea.....MALCOLM DAVIDSON
To the Queen of Heaven.....DUNHILL
Sleep.....PETER WARLOCK
The Water Mill.....VAUGHAN-WILLIAMS
Silent Noon.....VAUGHAN-WILLIAMS
Bluebells from the Clearings.....ERNEST WALKER
Ferry Ahoy.....BREWER
Roseen'du.....BAINTON
A Sea Dirge.....DUNHILL
It Was a Lover and His Lass.....MORLEY
Immortality.....CYRIL SCOTT
A collection of 50 Irish Melodies.....C. V. STANFORD
Invocation (Soprano).....BRYCESON TREHARNE
Songs of Innocence.....HAROLD DARKE
(Stainer & Bell)

Soprano

Alleluia.....MOZART
The Violet.....MOZART
Se tu m'ami.....PERGOLESI
Nina.....PERGOLESI
May Night (Mainacht).....BRAHMS
My Love is Bright (Meine Liebe ist Grün).....BRAHMS
The Question (Der Neugierige).....SCHUBERT
Faith is Spring (Fruhlingsglaube).....SCHUBERT
Après un Rêve.....G. FAURÉ
Now sleeps the Crimson Petal.....ROGER QUILTER
The Crying of Water.....CAMPBELL-TIPTON

Mezzo-Soprano

When I am laid in Earth.....PURCELL
Care Selve.....HANDEL
Oh, Sleep why dost thou leave me.....HANDEL

So clear thine Eyes (Dein Blaues Auge)..... BRAHMS
Margaret's Song (Gretchen am Spinnrade)..... SCHUBERT
The Walnut Tree (Der Nussbaum)..... SCHUMANN
The Trout (Die Forelle)..... SCHUBERT
Amarille..... CACCINI
On the Steppe..... GRETCHANINOFF
Why (Warum)..... TSCHAIKOWSKY
Dedication (Zuveignung)..... STRAUSS
Silver..... ARMSTRONG-GIBBS

Contralto

From Grief I cannot measure (Aus meinen grossen Schmerzen).... FRANZ
Sapphische Ode..... BRAHMS
Death and the Maiden (Tod und das mädchen)..... SCHUBERT
Thou art repose (Du bist die Ruh)..... SCHUBERT
Biblical Songs (any one)..... DVORAK
Dreams..... WAGNER
Where corals lie..... ELGAR
Cloths of Heaven..... DUNHILL
I got me Flowers..... VAUGHAN-WILLIAMS

For Tenor, Baritone, Bass

Song Cycle, "The Wind Among the Reeds" (any one)..... DUNHILL
(Pub. by Stainer & Bell)

Silent Noon..... VAUGHAN-WILLIAMS
Summer Night..... ARMSTRONG GIBBS
Quiet Night (Nacht und Traüme)..... SCHUBERT
Come Away, Death..... T. ARNE
Verrath..... BRAHMS
Christmas Eve at Sea..... MALCOLM DAVIDSON
Dead, Long Dead (from the "Maud" Cycle)..... A. SOMERVELL
When I Am Laid in Earth (tenor only)..... PURCELL
The Water Mill..... VAUGHAN-WILLIAMS
Ethiopia saluting the colours (baritones and bases only)..... C. WOOD
Invictus..... ARMSTRONG GIBBS
By a Bier Side..... ARMSTRONG GIBBS
My Heart Now is Merry (Phoebus & Pan)..... BACH
O Mistress Mine..... PETER WARLOCK
Dream in the Twilight (Op. 29, No. 1)..... STRAUSS
A Farewell (tenor)..... BRYCESON TREHARNE
Montarrat (baritone)..... BRYCESON TREHARNE

At Night (baritone).....BRYCESON TREHARNE
All Soul's Day (Op. 10, No. 8).....STRAUSS
A Shropshire Lad (any one).....A. SOMERVELL
English Lyrics, Third Set (any one).....C. H. PARRY
A Collection of 50 Irish Melodies.....C. V. STANFORD
Eleanore.....COLERIDGE-TAYLOR
O Vision Entrancing.....GORING THOMAS
I Have Twelve Oxen.....JOHN IRELAND

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection, not included in the above lists, and one Folk Song from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

5. *Questions.*

Questions will be asked as to the keys through which the music passes and as to the marks of direction and expression found in the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 720.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. (*See page 681*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 720. Candidates must sing from memory, with or without accompaniment (at the discretion of the examiners), one or all of the exercises arranged for this Grade in the various keys most suited to the particular voice.

2. *Ear Tests.*

Candidates must be able to name by interval or note (as they prefer) with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the keynote is left to the examiner. A rhythmical test is also given (which the candidates will be required to tap or sing), as well as a melodic test which the candidates must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

This test may be either sung to one vowel sound throughout, or to solfeggi. A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.

Soprano or Tenor—Two from No. 1 to 15.

First Series of 50 Solfeggios.....Vittorio Ricci

Any two from 1 to 19 of 50 Lessons.....Concone

Alto or bass—two from No. 1 to No. 12.

Second Series of 40 Solfeggios.....Vittorio Ricci

Medium Voices—Two from No. 1 to No. 10.

Third Series of 45 Solfeggios.....Vittorio Ricci

or

Any two from 1 to 15 of 25 Lessons.....Concone

Contralto, Baritone and Bass.

Any two from 1 to 9 inclusive of 42 Vocalises.....Panseron (Part 1.)

Any two from 1 to 15 of 40 Lessons.....Concone

Two songs of contrasted character, selected from one of the following lists, and also two Folk Songs from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello), and one song of candidate's own choice.

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO:—

Five Miniature Ballads (any three as one).....W. Y. Hurlestone

Where the Bee Sucks. (Pub. by Boosey).....Arne

Bel Amie.....
A Word of Thine. (Pub. by Schirmer) } as one.....J. S. Ford

Cradle Song.....Grieg

I Heard a Piper Piping.....Peter Warlock

Love's Philosophy.....Roger Quilter

To Daffodils.....Roger Quilter

A Child Asleep.....Elgar

Blackbird Song.....Cyril Scott

Second Song Cycle (any two of the four as one).....Perrin
(Published by Stainer & Bell, London)

A Widow-Bird Sat Mourning.....Bryceson Treharne

Solveig's Song.....Grieg

My mother Bids me.....Haydn

I love thee (Ich liebe dich).....Beethoven

Pastorale (arr. A.L.).....Veracini

The month of May (Im wunderschonen Monat Mai).....Schumann

Roses from the East (aus den ostlichen Rosen).....Schumann

Maiden's Song (Madchenlied).....Brahms

A legend.....Tschaikowski

When I was Seventeen.....Swedish Folk Song

Yarmouth Fair.....Peter Warlock

Sweet and Twenty.....Peter Warlock

FOR MEZZO-SOPRANO:—

My True Love Hath My Heart ..... PARRY
I Heard a Piper Piping ..... NORMAN PETERKIN
Slow, Horses, Slow ..... ARMSTRONG GIBBS
Ring Out, Wild Bells ..... C. L. BAINTON
Twelve Oxen ..... PETER WARLOCK
The Jocund Dance ..... ROGER QUILTER
Song of the Palanquin Bearers ..... MARTIN SHAW
As I Walked Forth and Infant Joy ..... HUBERT FOSS
Five Miniature Ballads (any three) ..... W. Y. HURLESTONE
Shepherd Love ..... H. CLAXTON
12 Songs, Op. 35 (any one) (Novello) ..... SCHUMANN
Spirit's Song ..... HAYDN
La Vision ..... SCHUMANN
What Tho' I Trace ..... HANDEL
Voi che Sapete (Nozze di Figaro) ..... MOZART
Child, What Sings the Morning ..... A. MALLINSON
In the time of Roses ..... REICHARDT
Goodnight (Gutte Nacht) ..... FRANZ
Woodland Journey (Wahlfahrt) ..... FRANZ
Maria Lullaby ..... REGER
A Bird's Cry ..... SINDING
Plaisir D'Amour ..... MARTINI
Blue as her Eyes ..... WALTER WATTS
Devon Maid ..... BRIDGE
The Merry Month of May ..... STANFORD
Sigh no more ladies ..... FREDERICK KEEL

FOR CONTRALTO:—

10 Canzonets (any one) (Novello) ..... HAYDN
Pieta Signor ..... STRADELLA
One Summer Night ..... GRIEG
Evening Song ..... SCHUMANN
Pull Away Home ..... GORDON JACOB
The King's Way ..... ELGAR
Evening Hymn ..... PURCELL
L'Heure Exquise ..... POLDOWSKI
Hame ..... WALFORD DAVIES
Morning Hymn ..... HENSCHEL
As I Walked Forth and Infant Joy ..... HUBERT FOSS
The Sea Wrack ..... HAMILTON HARTY
The Hero ..... SCHUMANN
Uphill ..... BRYCESON TREHARNE
Where Corals Lie ..... ELGAR
The Leaves and the Wind ..... LEONI

Nature's Praise (Die Ehre Gottes)..... Beethoven
She never told her love..... Haydn
Request (Bitte)..... Franz
Homeless (In der Fremde)..... Schumann
The Lotus Flower..... Schumann
The Bells of San Marie..... Ireland
Lilacs..... Rachmaninoff
Linden Lea..... Vaughan-Williams

FOR TENOR:—

I attempt from Love's Sickness to Fly..... Purcell
Milkmaid Song..... Stanford
Waft Her, Angels..... Handel
Sweet and Twenty..... Peter Warlock
Sigh No More, Ladies..... Aiken
Minnelied..... Brahms
Cavatina, from "Magic Flute"..... Mozart
Eleanore..... Coleridge-Taylor
La Charmante Marguerite..... Old French
And So I Made a Vilanelle..... Cyril Scott
Over the Western Sea..... Mallinson
Four Songs from the Cherry Gardens..... Sterndale Bennett

FOR BARITONE:—

I Attempt from Love's Sickness to Fly..... Purcell
As I Walked Forth and Infant Joy..... Hubert Foss
Linden Lea..... Vaughan-Williams
Easter Snow..... arr. by Stanford
The Red Fuchsia Tree..... Roger Quilter
The Palatine's Daughter..... Norman Peterkin
An Old Carol..... Roger Quilter
Morning Hymn..... Henschel
Yarmouth Fair..... Peter Warlock
The Wanderer..... Schubert
No Word from Thee..... Tschaikowsky
Four by the Clock (Cavalier's Song)..... Mallinson
Pipes of Pan..... Elgar
O Cessate di Piagarmi..... Scarlatti
Canzone (L'Addio)..... Mozart
Weep Ye No More..... Roger Quilter
Comme Raggio di Sol..... Caldara
Mariage des Roses..... Cesar Franck
The Swan Bent Low..... MacDowell
Lungi dal caro bene..... Secchi

FOR BASS:—

Droop Not, Young Lover (Golden Treasury of Songs).....HANDEL
Vittoria.....CARISSIMI
Serenade.....TSCHAIKOWSKY
Sing Ho, for the Horned Owl (Pub. by Schirmer).....J. S. FORD
Easter Snow.....arr. by STANFORD
The Faithless Shepherdess.....ROGER QUILTER
Wiegenlied.....BRAMHS
Bois Epais.....LULLY
Through the Ivory Gate.....PARRY
Sands o' Dee.....CLAY

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the time and key of the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 720.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 682*).

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 720.

Those arranged for this particular Grade must be sung from memory. with or without accompaniment, at the discretion of the examiner, in those keys which are most suited to the individual voice.

2. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the lower note, any note of the diatonic major scale struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.

(For all voices.)

Any three from No. 13 to the end.

24 Little Solfeggios for Beginners, Appendix.....VITTORIO RICCI

Pieces.

Candidates in each class of voice must, *in addition* to their selections from the following lists, be prepared to sing a song of their own selection.

Any two of a contrasted character from one of the following lists:—

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO, MEZZO-SOPRANO, CONTRALTO:—

Folk Song from Haensel and Gretel.....HUMPERDINCK
Where the Bee Sucks (Key F).....ARNE
Thine Eyes Still Shine for Me.....PARRY
Holly Song.....HOWELLS
Tyrley Tyrlow.....WARLOCK
Pastorale.....arr. A. L.
Snow Flakes.....MALLINSON
Cradle Song, in G flat.....BRAHMS
To Music (Golden Treasury, Vol. I).....SCHUBERT
The Poet's Song.....PARRY
The Little Red Lark (Key F).....IRISH
On Wings of Song.....MENDELSSOHN
What If I Never Speed (from 50 Dowland Songs, Bk. II, High Voice).....DOWLAND
(Stainer & Bell)
The Fiddler of Dooney.....R. MILFORD
The Gipsy Girl.....R. MILFORD
This Joyful Eastertide.....arr. A. SOMERVELL
Oh! Bother, Sang the Thrush.....LIZA LEHMANN
Slumber, Dear Maid (Largo).....HANDEL
Weep You No More, Sad Fountains (from 50 Dowland Songs, Low Voice, Bk. II).....DOWLAND
(Stainer & Bell)
Cradle Song.....BYRD
Nachklang (Tears), Op. 59, No. 4.....BRAHMS
Sapphic Ode.....BRAHMS
Scheiden und Meiden (Parting).....BRAHMS
Ständchen (Serenade).....BRAHMS

May Song ..... BEETHOVEN
Lullaby ..... MOZART
Have you seen but a whyte lillie grow ..... ANON
Sunday (Sonntag) ..... BRAHMS
Cradle Song (Wiegenlied) ..... BRAHMS
Hedge-Roses (Heiden-Roslein) ..... SCHUBERT
The First Primrose ..... GRIEG
The Cuckoo ..... LEHMANN
The First Rose ..... LEHMANN
When Icicles hang by the wall ..... VAUGHAN-WILLIAMS
My Love's an Arbutus ..... STANFORD
Come, Gentle Night ..... ELGAR
Eyes of Night ..... GRAHAM PEEL
O, Willow, Willow (Folk Song) ..... arr. WHITTAKER
Early one morning ..... HEALEY WILLAN
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR TENOR:—

And Shall Trelawney Die? ..... GORDON SLATER (Oxford University Press)
The Wind Mill ..... COLIN TAYLOR
When as the Rye ..... P. WARLOCK
Laughing Song ..... GORDON JACOB
The Talisman ..... SCHUMANN
Caro mio ben ..... GIORDANI
Farewell, Dearest Gretchen ..... GADE
Vieille Chanson (In the Woods) (Key F) ..... BIZET
Sérénade ..... SCHUBERT
A Last Year's Rose ..... R. QUILTER
My Lovely Celia—Old English air ..... arr. by LANE WILSON
Tell Me, My Heart (E flat) ..... BISHOP
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR BARITONE:—

The Self-Banished ..... BLOW
Fairest Isle (Golden Treasury) ..... PURCELL
Song of the Imprisoned Huntsman ..... SCHUBERT
Slumber, Dear Maid (Largo) ..... HANDEL
The Ploughboy ..... WM SHIELD
O, Sweet Flower / There is a Lady (Oxford University Press) Published together (Oxford Choral Songs) ..... COOPER or ..... FORD

The Jolly Carter.....arr. by E. J. Moeran
(Oxford Press)
Love Me or Not.....Secchi
In Summer Time on Bredon.....Graham Peel
A Lover's Garland.....C. H. Parry
Souvenir.....Cesar Franck
Folk Songs, from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).

FOR BASS:—

The Sandman.....Brahms
When Two That Love are Parted.....Secchi
For the Mountains Shall Depart (from Elijah).....Mendelssohn
An Old English Love Song.....Lane Wilson
The Fisher Maiden (Key F).....Schubert
Sun of the Sleepless.....Schumann
Folk Songs, from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

The attention of candidates is drawn to the system of marking and directions given on page 720.

Elementary Grade

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Technical Studies.*

See special set of technical exercises, scales and arpeggios referred to on page 720.

Candidates must be able to sing with or without accompaniment (at the discretion of the examiner) in the various keys suited to the individual voice, all those exercises arranged for this particular Grade.

2. *Ear Tests.*

With any note chosen by the examiner about the middle of the keyboard as the lower note, to distinguish between the major or minor 3rd, perfect 5th and perfect octave from that note.

3. *Reading at Sight.*

See specimen on the same page as technical exercises.

4. *Prepared Work.*

Studies.

FOR SOPRANO AND MEZZO-SOPRANO:—

Any three from No. 1 to No. 12.

24 Little Solfeggios from Beginner's Appendix.....VITTORIO RICCI

Pieces (which may be transposed to the extent of a tone higher or lower).

A. Any two of the following:—

"Songs for the Young" (Augener Edition No. 8931).

"Popular Nursery Songs," arranged by.....BRAHMS
(Augener Edition No. 8886)

"Six Children's Songs," Op. 59.....ARENSKY
(Published by Breitkopf & Haertel)

"Six Little Songs" (Augener Edition No. 8952).....WECKERLIN

"Seven Children's Songs" (Augener Edition No. 8833).....GRIEG

"It was a Lover and his Lass".....MORLEY

"The Sandman".....BRAHMS

"Six Songs" (Joseph Williams).....W. H. HADOW

Who is Sylvia.....SCHUBERT

Elizabethan Love Songs (Boosey & Co.) arranged.....F. KEEL

B. Any one of the following Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello): "The Fox," "The Holly and the Ivy," "As I walked Through the Meadows," "Dashing Away With the Smoothing Iron," "I Will Give My Love an Apple," "I'm Seventeen Come Sunday," "William Taylor."

5. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies, also on key signatures, etc.

The attention of candidates is drawn to the system of marking and directions given below.

Marks

The following system of markings will be adopted:—

	Elementary and Junior Grades	Intermediate Senior and Highest Grades
Posture and Facial Expression	8	8
Intonation	8	10
Accuracy as to Notes and Rests	10	..
Breath Control, Production of Voice	10	12
Blending of Registers	6	6
Attack	8	8
Diction	8	10
Expression, Phrasing, etc	8	10
Reading at Sight	10	8
Ear Tests	8	10
Scales and Arpeggios	10	10
Questions	6	8
Total	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

Directions to Candidates

1. Candidates must bring an accompanist, who, however, must retire from the examination room directly the prepared pieces which need accompaniment have been rendered.

2. A complete set of the technical exercises, scales and arpeggios required for all the five grades can be obtained at a cost of 25c, post free, from the General Secretary at the McGill University Conservatorium of Music, Montreal.

3. Candidates should be provided with two copies of each of the studies and pieces.

4. In all grades, songs can be sung by candidates *with either the original words or a translation.*

GENERAL SCHOOL EXAMINATION IN INSTRUMENTAL OR VOCAL INSTRUCTION

On application to the General Secretary, McGill University Conservatorium of Music, Montreal, a general school examination can be arranged for any time during the year. The expense must, of course,

vary according to the length of the railway journey the Examiner has to take. Due notice should, therefore, be given to the Secretary, so that he may be able to arrange the visit of the Examiner at a time when he is somewhere in the district, when the fee will be $20.00 for the first hour and $10.00 for each succeeding hour. Not less than one hour can be arranged for. It is understood that no individual reports will be sent in on the work submitted, but only a general report made on each branch of music. (Class singing, referred to hereafter, may be taken as one branch of this examination.)

INSTRUMENTAL ENSEMBLE EXAMINATION

Classes of strings or wind *or* strings *and* wind combined may be entered.

Examinations are also held in

PIANOFORTE CLASS WORK

CLASS SINGING EXAMINATION

This examination is not necessarily confined to an examination at a school. Any teacher may enter a class for examination. A short general report will be rendered to the person who enters the class for examination, and the details of the report will be given on the following lines:—

Accuracy as to Notes, Rests, etc.
Maintenance of Pitch.
Balancing of Parts and Groupings of Voices.
Articulation and Pronunciation.
Quality of Tone.
Expression and Conception of the works performed.
Sight Singing.
Performance of Vocal Exercises.

Requirements

1. The class must sing the vocal exercises prescribed, each group of the voices singing them separately in the keys best suited to the voices.*

2. At least two short compositions of different character and not in unison must have been previously prepared.

3. Sight Singing from the staff notation.

Three short tests of varying difficulty will be given.

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*These exercises can be obtained on separate sheets from the Secretary, McGill University Conservatorium of Music, price 25c per dozen, post free, on receipt of remittance.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the Degree of Doctor of Music. Candidates must present,
1. A composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than thirty minutes in performance; *or*

2. A composition such as an opera (not light opera), oratorio or cantata. In the event of a work under section 2 being offered, the first number must be an introductory orchestral movement in the form of a concert overture; the work must contain some eight part vocal writing and fugal treatment and must be scored for a full orchestra.

The Candidate must submit with the exercise a Declaration, signed by himself, that the work is his own unaided composition. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates in music of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.B., if they wish to proceed to the further degree of Mus.D., provided they secure permission to do so from the Dean of the Faculty of Graduate Studies and Research. The period of seven years referred to above will be counted from the date on which they received the degree of Bachelor of Music from their own University.

EXAMINATION REQUIREMENTS FOR DEGREE OF DOCTOR OF MUSIC

Harmony up to eight parts.
Counterpoint up to eight parts (Strict and free).
Instrumentation.
Canon four and two.
Fugue up to five parts.
History of Music.
Form and Analysis.

(Latter based on knowledge of Beethoven's nine symphonies, Brahms' first and fourth symphonies, Strauss' Till Eulenspiegel, Op. 28, either Bach's Magnificat or Beethoven's Mass in D Op. 123, and Mozart's Marriage of Figaro, or Wagner's Tannhauser, Wagner's Prelude and Liebestod (Tristan and Isolde), Humperdinck's Overture to Hansel and Gretel and Brahms' Tragic Overture (Op. 81).

McGILL UNIVERSITY

MONTREAL



FACULTY OF GRADUATE STUDIES AND RESEARCH

1944-1945

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McGILL UNIVERSITY

FACULTY OF GRADUATE STUDIES AND RESEARCH

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A complete list of the teaching staff of the University, including the Faculty of Graduate Studies and Research, is printed as a separate announcement, which may be obtained from the Registrar's Office.

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Professor W. A. DeLong (Agricultural Chemistry)
Professor G. Lyman Duff (Pathology)
Professor E. M. Du Porte (Entomology)
Professor H. G. Files (English)
Professor J. E. Gill (Geological Sciences)
Professor W. H. Hatcher (Chemistry)
Professor R. D. H. Heard (Biochemistry)
Professor H. E. Hoff (Physiology)
Professor J. Hughes (Education)
Professor C. L. Huskins (Genetics)
Dr. H. Jasper (Neurology)
Professor B. S. Keirstead (Economics and Political Science)
Professor C. E. Kellogg (Psychology)
Professor D. A. Keys (Physics)
Professor J. E. Lattimer (Agricultural Economics)
Professor F. LaViolette (Sociology)
Professor J. U. MacEwan (Metallurgy)
Professor W. D. McFarlane (Agricultural Chemistry)
Professor C. Macmillan (English)
Professor O. Maass (Chemistry)
Professor J. C. Meakins (Experimental Medicine)
Professor R. V. V. Nicholls (Chemistry)
Professor J. J. O'Neill (Geological Sciences)
Professor F. F. Osborne (Geological Sciences)
Professor W. Penfield (Neurology)
Professor C. B. Purves (Chemistry)
Professor L. C. Raymond (Agronomy)
Professor G. W. Scarth (Botany)
Professor H. Selye (Histology)
Professor A. N. Shaw (Physics)
Professor F. Smith (Bacteriology)
Professor R. L. Stehle (Pharmacology)
Professor C. A. Winkler (Chemistry)
Professor V. C. Wynne-Edwards (Zoology)

RESEARCH FELLOWS

JOHANNES HOLTFRETER, Ph.D. (Freiburg)
Research Fellow in Zoology.

JEAN LUNN, B.A., M.A., Ph.D.
Research Fellow in History.

MORITZ MICHAELIS, Ph.D. (Wurtzburg)
Research Fellow in Agricultural Chemistry.

HECTOR MORTIMER, M.B., Ch.B. (Aberdeen), F.R.C.S. (Ed.)
Research Fellow in Endocrinology.

STANLEY GEORGE SMITH, B.Sc., Ph.D.
Research Fellow in Genetics.

WILLIAM E. SWALES, B.V.Sc. (Toronto), Ph.D.
Research Fellow in Parasitology.

RESEARCH ASSOCIATES

SAMUEL B. BAKER, B.Sc. (Sir George Williams College), Ph.D.
Research Associate in Chemistry.

JOSEPH A. F. GARDNER, B.A., M.A. (British Columbia), Ph.D.
Research Associate in Chemistry.

IRVING LEVI, B.Sc., M.Sc. (Manitoba), Ph.D.
Research Associate in Chemistry.

CATHERINE F. C. MACPHERSON, B.Sc. (Mount Allison), M.Sc. (Dalhousie)
Research Association in Bacteriology.

GEORGES MARIE CHARLES MASSON, M.V.D. (Paris), L. ès Sc. (Montreal), Ph.D.
Research Associate in Anatomy.

LEONARD MITCHELL, B.A., M.A. (British Columbia), Ph.D.
Research Associate in Chemistry.

DOROTHY OSBORNE, B.Sc., D. ès Sc. (Montpellier)
Research Associate in Biochemistry.

JAMES M. PEPPER, B.A., M.A. (British Columbia), Ph.D.
Research Associate in Chemistry.

DAVID SIMINOVITCH, B.Sc., M.Sc., Ph.D.
Research Associate in Agricultural Chemistry.

HUBERT EDMUND WOODWARD, M.Sc. (Saskatchewan), Ph.D. (Pittsburgh)
Research Associate in Biochemistry.

ABRAHAM ZUCKERMAN, B.Sc. (Agr.), Ph.D.
Research Associate in Chemistry.

GENERAL STATEMENT

The Faculty of Graduate Studies and Research directs and controls all courses leading to higher degrees and recommends candidates for these degrees.

The members of the Faculty are selected by the University Committee on Research (see page 735). Under the University Statutes this Committee is responsible, jointly with the Graduate Faculty, for organizing and co-ordinating programmes and courses of research. The Dean of the Faculty is Chairman of the Committee.

ADMISSION

Advanced courses of instruction are offered to students who are graduates of any University of recognized standing, and who have at least second class honours, or the equivalent of at least second class honours as granted by McGill University, in the subject in which they desire to take their major work. In the particular case of students proceeding to an M.A. degree in Education, distinction in the general course will be accepted as a qualification for admission. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

The attention of applicants for admission to the Faculty is directed to the Graduate Record Examination (437 West 59th Street, New York City 19). This examination is held under the auspices of the Carnegie Foundation for the Advancement of Teaching and of the graduate schools of a number of Universities; it consists of a relatively advanced test in the candidate's specialty, and a general test of his attainments in the several basic fields of knowledge, for which no special preparation is required or recommended. It is offered at many centres, including Montreal, several times a year; the entire examination occupies some eight hours, and the total fee is $3.00. Applicants for admission to the Faculty are not required to take this examination, but those who have done so should submit their records therein; these will receive consideration along with other evidence of the candidate's admissibililty. This credential is of especial importance in the case of applicants whose education has been interrupted, or has been obtained at institutions which are not on the list approved by the Association of American Universities, or has not led directly towards graduate study in the subject selected. In such cases the Department has the right to refuse to consider applications which do not include a report from the Graduate Record Examination. High standing in this examination will not by itself guarantee admission.

CLASSES OF STUDENTS

1. Those admitted to the Faculty as regular students studying for a higher degree are termed "graduate students."

2. Those qualified students who are permitted to take one or more courses in the Graduate Faculty, without intention of proceeding to a degree, are termed "partial students of the Graduate Faculty."

3. Those students who are not sufficiently prepared to rank as "graduate students" can apply to the respective Faculties for admission to undergraduate studies. These students are not registered in the Graduate Faculty, but must register as partial students in the undergraduate Faculty in which they take courses.

REGISTRATION

Applications for registration as a graduate student should be made in triplicate on special printed forms which may be obtained at the Dean's Office. Applicants who are not McGill graduates must submit a certified copy of their complete academic record. These applications, duly signed, must reach the Dean's Office not later than October 3rd, 1944, otherwise a late fee of $5.00 will be charged.

Candidates must consult the Department or Departments in which they intend to study, regarding the course they desire to pursue, in time to attend the regular courses of instruction which begin on October 2nd, 1944. Formal application for permission to attend courses must be filled up by the student and signed by the Chairman or Chairmen of these Departments, by the Professors under whom the applicant intends to study, and filed with the Dean of the Faculty of Graduate Studies and Research as early as possible, and at the latest by October 3rd.

As soon as the candidate's course has been approved he must register without delay at the Registrar's Office. He will not be given credit for attendance until he does so. Candidates must register and pay their fees not later than October 21st, 1944, otherwise the prescribed penalty for late registration and late payment of fees will be enforced.

Candidates whose courses extend for more than one year must register at the commencement of each year of their course. If not registered at the beginning of the academic year, as provided above, the candidates will not be eligible for the degree at the following Spring Convocation.

Candidates who have completed their courses, who have not yet presented their thesis, and who are no longer in residence at McGill University, must register at the offices of both the Dean and the Registrar at the beginning of the session in which they present their thesis, with the usual registration fee of $10.

DEGREES

Graduate students may proceed to one or other of the following degrees:—Master of Arts, Master of Science, Master of Engineering, Master of Commerce, Master of Civil Law, Doctor of Philosophy, Doctor of Civil Law, Doctor of Music.

COURSES AT MACDONALD COLLEGE

Graduate students who are taking the major part of their work at Macdonald College may go into residence there and can take, when required, other graduate courses given at the University.

Students wishing to reside in Macdonald College should send in their application for accommodation to the Registrar, Macdonald College, Que., as soon as possible.

Any fees in connection with courses taken at Macdonald College are payable to the Bursar of Macdonald College.

FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

Details of Fellowships, Scholarships, Bursaries, Medals and Loan Funds available for graduate students will be found in the Announcement of Scholarships, Bursaries, Prizes and Loan Funds.

In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

FEES

1. For degree of M.A. (non-science subjects), M.Com. and M.C.L.
   - First Year Students $145.00
   - Any subsequent year of residence 130.00
2. For degree of M.A. (Science subjects involving laboratory work)
   M.Sc., and M.Eng.
   - First Year Students 165.00
   - Any subsequent year of residence 155.00
3. For degree of Ph.D. (non-science subjects)
   - First Year Students (See Section 7) 145.00
   - Second Year Students 130.00
   - Third Year Students 130.00
   - Any subsequent year of residence 130.00
4. For degree of Ph.D. (Science subjects involving laboratory work)
   - First Year Students (See Section 7) 165.00
   - Second Year Students 155.00
   - Third Year Students 155.00
   - Any subsequent year of residence 155.00
5. A student who has completed his course but has not completed his thesis pays a registration fee of $10.00 at the beginning of the session in which he intends to present his thesis. If a candidate for the Master's degree has not paid full fees for at least one year of resident

study at McGill, or if a candidate for the Ph.D. has not paid full fees for at least two years of resident study at McGill (or three years in all if the year for the Master's degree is included), he is required to pay a graduation fee of $20 for the Master's degree or of $35 for the Ph.D. degree.

Those graduate students who are required or recommended by the department concerned to spend one year of their Ph.D. course at another university may be exempted from this fee of $35.

6. A student permitted by his Department to take the work for the Master's degree spread over more than one year pays the first year's fee, and a fee of $25.00 for each subsequent year of residence. If a course or courses have to be repeated the regular fee applies.

7. The year or years of study for the Master's degree counts as the first year of the Ph.D. degree in the computation of fees.

8. A student permitted by his Department to take the work for the Ph.D. degree spread over more than three years pays a fee of $25.00 for each year of residence subsequent to the third year. If a course or courses have to be repeated the regular fee applies.

9. Any student taking a lecture course or doing laboratory work or receiving guidance or consultation from any member of the staff is considered to be in residence. He must register and pay fees as above.

10. The full fees are inclusive, and cover tuition, laboratory, graduation, library, health and athletics and Graduate Students' Association.

11. Students taking qualifying courses register in the Faculty in which they are taking the courses, and pay the partial tuition fee of that Faculty with a maximum of $155.

12. A Graduation Fee of $100.00 is payable for the degree of D.C.L. and Mus.Doc. and should be forwarded with the application. There is no fee for the degrees when granted "honoris causa."

13. A candidate for any of the above degrees who fails in his thesis may present a revised thesis once again, for a subsequent Convocation, upon payment of the following fees:

Master's Degree	$10.00
Ph.D. Degree	20.00
D.C.L. and Mus. Doc.	50.00

A registration fee (see Section 5) is also payable if a new session is entered.

14. Additional fee for degree conferred "in absentia" 10.00

15. Fees for Supplemental Examinations, granted under special circumstances, by permission of the Dean, are payable in advance, per paper 10.00

16. The fee for special Ph.D. language examinations is..... 5.00
    The fee for Supplemental Examinations in Ph.D. French and German Reading is..... 5.00

17. French Summer School students who are proceeding to the M.A. degree are liable for the regular fee of $145.00 for the M.A. course but are remitted $33.75 of this for each Summer Session they have attended in the advanced course. They are required to register in the office of the Dean of the Graduate Faculty at the end of each of the second and third Summer Sessions; for this no fee is necessary. At the end of the fourth Summer Session they are required to register in the Graduate Faculty and pay the balance still owing of the M.A. fee of $145.00. If the presentation of the thesis is postponed beyond the May following this registration, they will pay an additional registration fee of $10.00 at the beginning of the session in which the thesis is to be presented. Students who have completed four Summer Sessions in French (or the equivalent) are excused the in absentia fee when they obtain an M.A. degree.

18. Fees are due and payable at the Bursar's Office on or before October 21st. If paid by instalments the second instalment is due on February 2nd. An additional $5.00 is charged for payment by instalments. An additional $2 is charged for payment after the specified dates.

19. Immediately after October 21st a list of students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students cannot be re-admitted to any class until instructions have been received from the Bursar that the fees have been paid.

20. Late fees are charged as follows:—

Application forms, after October 3rd.....	$5.00
Registration at Registrar's Office, after October 21st...	5.00
Payment of fees, after October 21st.....	2.00

21. Each student in Chemistry is required to deposit the sum of $20 as Caution Money, to cover 10% of the cost of all chemicals and other supplies used by the student, and damage done to furniture, apparatus, books, etc. This amount, less deductions, is returned at the close of the session.

22. All resident students with the exception of those at Macdonald College, are entitled to the following health and athletic privileges:—
    (a) Medical examination; daily consultation service and hospital treatment, as furnished to undergraduates.
    (b) Tennis privileges during the session and summer privileges on the same basis as undergraduates. (Present summer fee $5.00).
    (c) Social skating privileges on the campus rink.

(d) Opportunities for exercise with various athletic clubs and eligibility for intercollegiate and other teams.

At Macdonald College, graduate students are required to live in residence and are entitled to medical attendance, major operations excepted, on the same basis as other students in residence. Graduate students at Macdonald College are entitled to participate in the activities of the various organizations and have one representative on the Men's Residence Committee. Graduate students who desire to take part in Athletics may do so upon the payment of the regular undergraduate subscription. A special fee is payable by those who desire student publications and the use of tennis courts.

23. All students in the Faculty of Graduate Studies and Research are members of the Graduate Students' Association.

24. All fees are payable in Canadian currency.

RESEARCH FELLOWS

This title is intended to provide recognition, and status on the University records for investigators of professorial calibre who are not members of the staff of McGill University but are attached temporarily to a department on the ground that their assistance is *required in the interests of a current programme of research.*

A Research Fellow must not be proceeding to a degree, and any money grant that he receives must be either from McGill University or from some other institution for the advancement of learning and must be paid solely for the advancement of the research that he is pursuing and not for instruction or demonstration.

RESEARCH ASSOCIATES

The title of Research Associate is intended to apply to investigators of academic standing junior to that of the Research Fellow. They must not be proceeding to a degree, nor may they be members of the staff of McGill University, but the receipt of a grant or scholarship from McGill University or any other institution for the advancement of learning shall not be considered to disqualify them for this title.

GENERAL RULES CONCERNING HIGHER DEGREES

1. Members of the teaching staff of the University who are also students in the Graduate Faculty and who give more than three hours of lectures or six hours of conference work or twelve hours of supervisory work in laboratories per week; or any student doing an equivalent amount of work inside or outside the University, may not obtain the Master's degree in one year, and will require at least four years for the degree of Ph.D. Members of the teaching staff only may apply in writing to the Dean, on the written recommendation of the Chairman of the Depart-

ment, to pay half fees for each of two years that shall count as one year of residence.

2. No full-time student registered in any professional Faculty of the University may register for a graduate degree without the special permission of both Faculties in full session.

3. A candidate with a given higher degree may be permitted to proceed to a second degree of the same kind, but in another subject, provided that the usual requirements for the degree are entirely fulfilled and approved as usual by the Department concerned.

4. Major and Minor Subjects. A higher degree is granted in the Faculty of Graduate Studies essentially for work in one subject, known as the student's *major subject*. In certain cases, a *minor subject* may also be taken if this subsidiary subject is approved by the Department which has charge of the major subject and by the Chairman of the Department of the minor subject. A student should determine whether he is to take a minor subject or not by consulting the Chairman of the Department of his major subject.

5. Cognate Subjects. Certain allied or "cognate" courses may also be taken in conjunction with the major subject. These must be entered on the application form and signed by the Chairman of the Department concerned.

6. Each Department has full liberty to recommend or require a student to take a course in another Department.

CLASSIFICATION OF MARKS

100-75%.....First Class
74-60%.....Second Class
Below 60%.....Failure

Students who have failed in required examinations are permitted to write supplemental examinations only on the recommendation of the major Department and with the permission of the Dean.

THE DEGREES OF MASTER OF ARTS (M.A.), MASTER OF SCIENCE (M.Sc.), MASTER OF ENGINEERING (M.Eng.), MASTER OF CIVIL LAW (M.C.L.), AND MASTER OF COMMERCE (M.Com.)

1. Normal Procedure for the Master's Degree.

When the application of a student to enter the Faculty has been approved the student must fill out his registration forms (obtained from the Dean's office) in triplicate, under the direction of the Chairman of the Department of his major subject, and his director of research, both of whom will sign the forms. The three registration forms must be completed and submitted to the Dean for approval by the Faculty before October 3rd. Fees must be paid before October 21st, as soon as the registration forms have been marked approved by Faculty and returned.

Examinations. The student must pass the examinations of the courses he has taken and the marks or classes he obtains are part of his qualifications for the degree. All courses entered on the application forms are for examination, unless otherwise stated.

Thesis. He must also present a thesis on some topic connected with his major subject. The title of the thesis must have been previously submitted to the Chairman of the Department concerned for his approval in writing. It must be in some measure a contribution to knowledge and must also be written in good literary style. *For further information regarding theses, see page 752.*

Residence. At least one full session or two half-sessions of resident study at McGill University is required for a Master's degree.

2. Special Concessions for Civil Servants.

With regard to the M.Sc. and M.Eng. (which may be the first year of the Ph.D. course), the following concessions are approved:

(1) Candidates for the degrees of M.Sc. or M.Eng. who are graduates of McGill University and have had two or more years' experience in a Government Department, performing as their main duty, work of the same type as that proposed for research, may, on recommendation of a Department and with the approval of the Faculty in full session, have their residence requirements reduced to one-half session only. It is understood that these candidates must take the usual final examination in all subjects required. The full sessional fee is payable.

No special concessions can be made to Civil Servants who are graduates of universities other than McGill.

(2) A Government laboratory may be approved by the Faculty as a research institution (see page 749).

3. The Degree of Master of Arts.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following Departments of study, which rank as "subjects":—

*Botany	*Geological Sciences
*Chemistry	German
*Chemistry (Agricultural).	History
Classics	Mathematics
Economics and Political Science	Physics
Education	Philosophy
English Language and Literature	Psychology
French Language and Literature	Sociology
*Genetics	*Zoology

*May not be selected as a major subject for the M.A. degree.

Certain Theological studies may be taken as a cognate subject only. (See page 800).

Candidates must hold the degree of B.A. They must have obtained at least a second class in an Honours course at McGill University, or its equivalent elsewhere in the subject or subjects which they propose to study.

4. The Degree of Master of Science.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following Departments of study:

Agronomy	Horticulture
Anatomy	Mathematics
Bacteriology and Immunity	Neurology and Neurosurgery
Bacteriology (Agricultural)	Nutrition
Biochemistry	Parasitology
Botany	Pathology
Chemistry	Pharmacology
Chemistry (Agricultural)	Physics
Entomology	Physiology
Experimental Medicine and Surgery	Plant Pathology
Genetics	Psychology
Geological Sciences	Zoology

Candidates must hold a Bachelor's degree with at least second class in an Honours course at McGill University, or its equivalent. Candidates with an M.D. degree must have attained high standing.

5. The Degree of Master of Engineering.

Instruction for the degree of Master of Engineering is given in the following Departments of study, which rank as "subjects", in which definite courses may be selected:

Chemical Engineering
Civil Engineering
Electrical Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering

Candidates must hold the Degree of Bachelor of Engineering, or an equivalent degree, and their undergraduate academic rank must, in general, be equivalent to high second-class standing.

The establishment of the Degree of Master of Engineering does not prevent a properly qualified holder of the Degree of Bachelor of Engineering, or the equivalent, from proceeding to the Degree of Master of Science in pure science.

6. The Degree of Master of Civil Law.

Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Civil Law is provided in the following Departments of study which rank as "subjects."

Roman Law

Civil Law

Commercial and Maritime Law

Public Law

(Courses in all subjects will not necessarily be offered each year.)

Candidates must hold the degree of B.C.L. from McGill University, or its equivalent. They must be well qualified students who have obtained at least second class honours in the subject which they propose to take and in the course as a whole.

One only of the above subjects may be taken.

Each candidate is required to take at least one course in his subject involving at least one year of resident study.

In addition he is required to meet in personal conference, at least once a week, the professor under whose supervision he is preparing his thesis.

For further details consult the Secretary of the Faculty of Law.

7. The Degree of Master of Commerce.

Candidates must hold the degree of B.Com. from McGill University, with at least a creditable average second-class standing, and with at least second-class standing in the required courses in Economics; graduates of other universities must possess equivalent qualifications, especially in Economics.

Applications for admission must be approved by the Director of the School of Commerce and by the Chairman of the Department of Economics.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

1. Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B.Eng. or B.Sc. (Agr.) or M.D., with at least good second-class standing in each case, from McGill University, or some equivalent qualification.

2. They must follow a course of at least three years' resident study at a University or other institution of higher learning or research. Of these three years, at least one year for graduates of McGill and two years for candidates who are not graduates of McGill, must be spent at this University, including preferably the final year. The other years may be spent at institutions approved by the Faculty. The Faculty may make special exceptions to these general regulations concerning residential study.

A student who has obtained his Master's Degree at McGill University or at an approved institution elsewhere, and is proceeding to a Ph.D. may, on recommendation of the Department, be permitted to count the work done for the former as the first year of his resident study for the Doctor's degree.

3. Candidates must select one major subject. Minor or cognate subjects may be selected, with the consent and approval of the Department in which the major subject is taken, subject to the advice and agreement of the Chairmen of the other Departments concerned.

Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Agricultural Chemistry
Anatomy
Bacteriology and Immunity
Biochemistry
Botany
Chemistry
Economics and Political Science
Endocrinology
Entomology
Experimental Medicine and Surgery
Genetics
Geology
History
Neurology and Neurosurgery
Parasitology
Pathology
Pharmacology
Physics
Physiology
Plant Pathology
Psychology
Zoology

In special cases, Departments may be able to provide courses in other subjects which will lead to this degree. Candidates, therefore, desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should make direct application to the Dean of Graduate Studies and Research, asking whether courses in such subjects can be provided.

4. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Chairmen of the several Departments concerned and have received their approval.

5. *Preliminary Examination.* The first two years include instruction, training and direction in the candidate's field of study, with the object of giving him a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation.

The candidate's preliminary examination is held at the end of the second year, or at a time selected by the Chairman of the major Department, unless otherwise specified by Departmental regulations approved by the Faculty. This examination covers all graduate work previously taken by the candidate, including his prescribed reading and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination is both written and oral.

The result of this examination determines whether the candidate is allowed to proceed to his degree. The final year is devoted chiefly to the preparation of his thesis.

After his thesis has been received and approved, a special and more searching final oral examination on the subject of his thesis and subjects more intimately related to it is held. This is conducted in the presence of a Committee of at least four members of the Faculty of Graduate Studies.

6. Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German.

The language examinations are set by the Department in which the candidate is taking his major; the passages chosen are typical of the literature of his major subject, and the Department concerned may conduct and correct the examination, if it so desires.

Candidates are advised to take one language at the commencement of their first year and the other at the commencement of the second year, but both language tests should be passed not later than one month before the preliminary Ph.D. examinations. These examinations are held during the first ten days of December without fee. Examinations may be held at other dates under exceptional circumstances, and with the approval of the Dean, in which case a fee of $5.00 per candidate must be paid in advance, for each examination.

7. *Thesis.* The thesis for the Doctor's degree must display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Chairman of the Department in which the major subject is taken, and also by the Faculty of Graduate Studies and Research, at least twelve months before the date of the final examination.

8. Three copies of the thesis must be provided by the candidate.

9. The regulations concerning theses are stated on pages 752 to 754, Special regulations for the Ph.D. in Economics are stated on page 766 and in History on pages 780, 781.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

Any person who has graduated as a B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. A very high standard is required for this degree, but it does not call for any resident graduate study in the University.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus.Doc.)

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra. If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than forty minutes in performance. Compositions which have already been published or performed may be submitted, if otherwise suitable. The University may, if it elects to do so, order the candidate to give a public performance of his original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work.

Graduates of other Universities may, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.Bac., if they wish to proceed to the further degree of Mus.Doc., provided they secure permission to do so through the Faculty of Graduate Studies and Research from the Senate of the University, the period of seven years referred to above to be counted from the date on which they received the degree of Bachelor of Music from their own University

Requirements for Mus. Doc.

Harmony up to eight parts; Counterpoint up to eight parts (Strict and free); Instrumentation; Canon four and two; Fugue up to five parts; History of Music; Form and Analysis based on knowledge of Beethoven's nine symphonies, Brahms' second and third symphonies, Strauss' tone poem Death and Transfiguration, Wagner's Meistersinger and Tannhäuser Overtures, either Bach's St. Matthew Passion or Beethoven's Mass in C, and Mozart's Magic Flute or Wagner's Parsifal.

REGULATIONS CONCERNING THESES

In the case of students who wish to graduate at the Spring Convocation, all theses for a Master's degree which do not involve experimental work, must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 25th. Theses for the degree of Ph.D. must be handed in on or before April 21st.

All theses for the degree of Master of Science, or of Engineering, which involve experimental work, must be in the hands of the Dean not later than May 5th.

The theses of students who wish to graduate at the Fall Convocation must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 3rd.

All theses submitted by successful candidates for higher degrees are bound and placed in the Library. Candidates for such degrees are therefore advised that the Faculty of Graduate Studies and Research requires these to be prepared in accordance with the following specifications:—

(1) The paper must be of a good Bond grade, and is to be of uniform size, 8½ x 11 inches.

(2) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(3) Theses must be typewritten and in triplicate. Ultimately one copy is deposited in the McGill Library, one in the Departmental Library, and one is returned to the candidate.

(4) No binding is necessary, but the loose sheets must be placed, unfolded, in a manila envelope in the order of their pagination. On the outside of each envelope must be written clearly the name of the candidate, title of thesis, degree, date, and Copy I, II or III.

(5) Copies of the thesis must be double-spaced and free from typographical and other errors, otherwise they will be returned to the candidate for revision, with possible consequent delay in the granting of the degree.

(6) Every thesis should have an abstract and a sufficient table of contents, and a thorough bibliography on the subject. Scientific theses should also contain an introductory historical statement of previous work or investigation, and a summary. In the case of the Ph.D. degree, there should be a clear statement of the claim of original work or contribution to knowledge made by the author.

(7) The candidate is required to declare, generally in the preface and specifically in the text of the thesis, the extent to which assistance has been given by members of the staff, fellow-students, technicians, or others, in the collection of material, the design and construction of apparatus, the performance of experiments, and the preparation of the thesis in general. This regulation does not apply to the normal supervision and advice given by the director of the candidate's research.

(8) In the case of candidates presenting themselves for the degree of Doctor of Civil Law, three copies of the book or books, or, should a thesis be substituted, three typewritten copies of the thesis, must be submitted to the Dean of the Faculty of Graduate Studies and Research not later than February 14th of the year in which the candidate desires to take the degree.

(9) If a thesis is rejected it cannot be submitted again, in a revised form, more than once.

SUMMARIES OR ABSTRACTS OF THESES

(10) Three copies of a statement must also be presented, on a separate sheet, giving the author, title of thesis, and a summary not exceeding 150 words.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY
(Macdonald College)

Professor.....Robert Summerby
Associate Professor.....L. C. Raymond
Assistant Professor.....E. A. Lods
Lecturer.....J. N. Bird

The Department is well equipped to conduct research with crop plants particularly in relation to breeding.

All the important periodicals, scientific journals, books and bulletins on Agronomy and related subjects, are available to students in either the McGill, Macdonald College or Agronomy Department Libraries.

Courses for the Degree of Master of Science

Candidates who take Agronomy as a major subject must have had a good training and achieved high standing in Agronomy, Botany, Chemistry, and Genetics. Those who have not had adequate training in these subjects must rectify any such deficiency.

A. Experimentation.
One lecture and two laboratory periods per week, second term.
Professor Summerby.

B. Hay and Pasture Crops.
Two lectures and two laboratory periods per week for one term.
Mr. Bird.

C. Corn and Root Crops.
Two lectures and two laboratory periods per week for one term.
Professor Raymond.

D. Grain Crops.
Three lectures and three laboratory periods per week for one term.
Professor Lods.

E. Seminar.
Fortnightly, during the year. Professor Summerby and Staff.

A student must take course E and two courses from A, B, C, and D. In addition, he must take at least one other course selected from the above, or in a cognate subject. Other cognate courses may be added or required on the advice of the director of research.

It is recommended that candidates spend at least one summer in the Department before or during the course.

DEPARTMENT OF ANATOMY

Professor of Anatomy.....C. P. MARTIN
Assistant Professor of Anatomy.....D. S. FORSTER
Associate Professor of Histology....H. SELYE
Assistant Professor of Histology....C. P. LEBLOND*
Research Associate.....G. M. C. MASSON

The department offers facilities for research work leading to the degrees of Master of Science and Doctor of Philosophy.

QUALIFICATIONS FOR ADMISSION

All candidates should consult the Chairman of the Department before entering these courses.

Candidates must have attained high standing in Anatomy 1 and 2 or in Microscopic Anatomy 5 and Embryology 7 at McGill, or the equivalent. They must have obtained a B.Sc., B.A., or M.D. degree.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. Advanced laboratory work in Anatomy.

and 2. Experimental Morphology (Anatomy 6).

or 3. Physical Anthropology (Anatomy 4).

5. Cognate Subjects:—Depending on the particular branch of Anatomy in which any candidate may be working, the Chairman of the Department can require him to attend any other course given in the University, subject to the consent of the Chairman of the Department concerned.

The thesis must be on some approved subject in Anatomy, Microscopic Anatomy or Experimental Morphology.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Following the work for the Master of Science degree, the student must specialize in either:—

(a) Macroscopic Anatomy, including Comparative Anatomy and Physical Anthropology.

or (b) Microscopic and Experimental Morphology, taking cognate courses in Cytology and Genetics.

A comprehensive examination will be held at the end of the second year.

*On Military Service.

BACTERIOLOGY

Professor.....E. G. D. Murray**
Associate Professor.....Frederick Smith
Assistant Professors.....T. E. Roy*, C. D. Kelly, D. S. Fleming
Lecturer.....W. H. Mathews*
Research Associate.....Catherine F. C. Macpherson

Qualifications for admission to the Course.

(1) A B.Sc. degree with at least second class honours in Bacteriology and Immunity at McGill University, or its equivalent elsewhere.

or (2) An M.D. degree with high standing in Bacteriology, Pathology, and Immunity.

Courses and Other Facilities Available.

A. The more advanced lectures and classes given in the Department to the Science Division of the Faculty of Arts and Science, and to the Faculty of Medicine will be available to candidates for the M.Sc. degree.

B. Conferences will be held with candidates guiding them in their reading, helping with technique, and discussing the theory and practice of Bacteriology and Immunity, as well as of individual researches.

C. The practice of the Clinical Bacteriological Services in relation to the Hospitals will also be available to candidates as a means of instruction and a source of material for research and study.

Requirements for the M.Sc. and Ph.D. degrees (see pages 747, 748).

DEPARTMENT OF AGRICULTURAL BACTERIOLOGY
(Macdonald College)

Associate Professor.....P. H. H. Gray
Lecturer.....F. S. Thatcher

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Soil Microbiology.....Professor Gray
Reference book: Waksman: Principles of Soil Microbiology: 2nd edn. (Williams & Wilkins, Baltimore).

*On military service. **On leave of absence.

B. Food Microbiology.....Dr. Thatcher

C. Physiology of Micro-organisms.....Professor Gray
Text-book: Stephenson: Bacterial Metabolism, 2nd Ed. (Longmans).
Reference book: Buchanan & Fulmer: Physiology and Biochemistry of Bacteria (Williams & Wilkins, Baltimore).

D. Colloquium. (One hour weekly) Review of literature, discussion, and criticism.....The Staff

A minimum of one lecture and one colloquium hour, and six laboratory hours weekly in any one course will form the basis of instruction. Candidates are required to take Courses C and D, with either A or B.

DEPARTMENT OF BIOCHEMISTRY

Professor.....D. L. Thomson
Assistant Professors.....O. F. Denstedt, R. D. H. Heard
Sessional Lecturer.....Harry Sobel
Research Associates.....Dorothy Osborne, H. E. Woodward

Candidates who have satisfactorily completed the Honours course in Biochemistry as undergraduates may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department; all others are expected to spend two years in the Faculty of Graduate Studies and Research before going forward for the degree. Candidates for the Ph.D. degree must pass a general examination in Biochemistry, but will be judged principally by the ability they display in research. Candidates for either degree are expected to attend Courses A and B (below) and may, according to their qualifications, be required to take undergraduate courses 2, 3, 4 or 5 in Biochemistry or other cognate subjects. (See Arts and Science Announcement).

A. Recent Advances in Biochemistry.
Lectures: Wednesday at 5.
Text-books.—Peters and van Slyke, "Quantitative Clinical Chemistry" (Williams & Wilkins); Allen, "Sex and Internal Secretions" (Williams & Wilkins); Luck, "Review of Biochemistry" (Stanford Univ.); Harrow and Sherwin, "Text-Book of Biochemistry" (Saunders).

B. Advanced Endocrinology.
(Given jointly with the Departments of Anatomy and of Experimental Medicine.)
Lectures: Monday and Friday at 5.
Prerequisite: Biochemistry 2.

DEPARTMENT OF BOTANY

Professor.....George W. Scarth
Associate Professor.....Muriel V. Roscoe
Assistant Professor.....R. D. Gibbs

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Cellular and Experimental Plant Physiology.
Friday 2 and 3. Laboratory hours to be arranged. Professor Scarth.

*B. Plant Biochemistry.
Tu., Th., at 11. Laboratory hours to be arranged. Professor Gibbs.

C. Biochemical Plant Physiology.
Two lecture hours per week to be arranged.....Professor Gibbs.

*D. Micro-technique and Histology.
Half-course.
Hours to be arranged. Professor Roscoe.

*E. Technical Botany (for cellulose chemistry students).
Next given in 1944-45. Botany 1B or equivalent pre-requisite.
Full course. Hours to be arranged.....Professors Roscoe and Gibbs.

F. Special Topics.
Full course or half course.
Prescribed reading and conference. The Staff.

Biological Colloquium.

Requirements for the Master's Degree

In addition to writing a thesis the candidate must satisfy requirements in two full courses (or the equivalent in half courses) from the above list and also attend the colloquium. On the advice of the director of research one Cognate course may be substituted.

Requirements for the Degree of Doctor of Philosophy

Second year students will take one of the above courses which they did not follow during their M.Sc. year. Further instruction is given mainly by way of conference and direction of study. Most weight is laid on the thesis.

DEPARTMENT OF CHEMISTRY

Professors	O. Maass W. H. Hatcher C. B. Purves
Associate Professors	J. B. Phillips J. H. Mennie W. H. Barnes
Assistant Professors	C. A. Winkler R. V. V. Nicholls
Lecturers	J. H. Ross R. Boyer R. L. McIntosh
Research Associates	S. B. Baker J. A. F. Gardiner Irving Levi Leonard Mitchell J. M. Pepper A. Zuckerman

*Open to honours undergraduates.

Adequate laboratory and library facilities are available for the courses listed below and for research. The Pulp and Paper Research Institute affords ample facilities for research on the structure and properties of carbohydrates, cellulose, lignin, wood, and pulp and paper.

Courses for Higher Degrees

A. Advanced Organic.
Three hours per week.....Professor Nicholls.

B. Structural Organic Chemistry.
Two hours per week.....The Staff.

D. Advanced Inorganic.
Two hours per week, first term.....Professor Hatcher.

E. Advanced Inorganic.
Two hours per week, second term.....Professor Hatcher.

F. Advanced Physical.
(a) Properties of Matter.....2 hrs. per week, 1st term
(b) Physico-chemical Equilibria.....2 hrs. per week, 2nd term
(c) Phase Rule.....1 hr. per week, 1st term
(d) Atomic Structure and Radio-activity..1 hr. per week, 2nd term
Professors Maass and Winkler.
Any or all of these sub-divisions, as well as a course in theoretical calculations, may be required.

G. Colloid Chemistry.
One hour per week.....Professor Winkler.
Laboratory courses are available in all of the above when required.

H. History of Chemistry. (Not given in 1944-45).
One hour per week.....Professor Barnes.
The above courses are available for Honours students in Arts and Science and students in Chemical Engineering.

J. Colloquium—Organic.
One hour per week. Professors Hatcher, Purves, Nicholls, and Dr. Boyer.

K. Colloquium—Inorganic and Physical.
Two hours per week.....Professors Maass and Winkler.

L. Cellulose, Lignin, and Related Compounds.
One hour per week.....Professor Purves.

M. Physical Properties and Chemical Constitution of Organic Compounds. (Not given in 1944-45).
One hour per week.....Professors Barnes and Hatcher.

N. Chemical Physics.
Two lectures per week.....Professor Winkler.
The subject matter varies from year to year. Topics include chemical kinetics, photochemistry, molecular structure, quantum mechanics, etc.

O. ELECTROCHEMISTRY.

This course is available for Honours students in Arts and Science and students in Chemical Engineering.

Two hours per week, first term.....Professor Mennie.

P. THEORY OF HYDROGEN ION MEASUREMENTS.

One hour per week, First term.....Professor Mennie.

Q. THERMODYNAMICS.

This course is also available for Honours students in Arts and Science and for students in Chemical Engineering.

Two hours per week.....Professor Winkler.

R. CHEMICAL ENGINEERING.

Advanced topics. Two hours per week.....Professor Phillips.

S. RESEARCH METHODS OF ORGANIC CHEMISTRY.

Comprehensive review and classification of the reactions of Synthetic Organic Chemistry, the methods of isolating and purifying compounds. and the chemical means available for the proof of structure.

One lecture per week throughout the session....Professor Nicholls.

T. CHEMISTRY AND TECHNICOLOGY OF HIGH POLYMERS.

Part I: Synthetic Resins, Textiles, and Lastics: (1) Classification, (2) the chemistry of resin formation, (3) physical concepts of the resinous state, (4) the "perfect" resin, (5) detailed description of the principal industrial resins (tradenames, raw materials, synthesis, structure, properties, prices), (6) outlets for resins in the moulding, coating, textile, construction and other industries, (7) modified synthetic resins. Part II: (1) Natural resins (rosin, rubber, casein, etc.), (2) processed natural resins (ester gum, chlorinated rubber, cellulose esters, lignin, etc.).

One lecture per week throughout the session....Professor Nicholls.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

I. Students are required to take examinations in (a) Organic, (b) Inorganic, (c) Physical, (d) Colloid Chemistry and other assigned courses, if any. Students are expected to have covered the subject matter of at least two of the above courses on entrance to the Faculty.

II. *Colloquium*—one per week.
Students are required to present and discuss in an acceptable manner papers dealing with fundamental and recent work.

III. *Special Graduate Lectures.*
Students are required to pass examinations on the subject matter of such lectures as relate to their particular work.

Master's Degree in Chemical Engineering

Students who hold a Bachelor's degree in Chemical Engineering have the option of studying for the Master of Science degree in Chemistry or the Master of Engineering degree in Chemical Engineering.

The following courses are required for the Master of Engineering degree:

I. Advanced Chemical Engineering R; with one of the following: Organic Chemistry A, Inorganic Chemistry D and E, Physical Chemistry F.

II. One of the following: Chemical Physics N, Thermodynamics Q, Theory of Heat F; Cellulose L with Colloid Chemistry G.

III. Chemical Engineering Colloquium.

IV. Thesis on a Chemical Engineering subject.

Requirements for the Degree of Doctor of Philosophy

I. The research work in this Department may be conveniently considered under the following heads:—

(a) Organic Chemistry, (b) Inorganic Chemistry, (c) Physical Chemistry, (d) Colloid Chemistry, (e) Cellulose Chemistry.

One of these (under which the research falls) is designated the "principal subject" and each of the others a "secondary subject." Graduate students are required to take examinations in both "principal" and "secondary" subjects.

Principal Subjects:—Several examinations, both written and oral, are held. Students are responsible for the subject matter of all related lecture courses and assigned reading. Special courses given in other Departments may be assigned and examinations required.

Secondary Subjects:—The examinations are less rigorous than in the principal subject. The subject matter is more clearly defined and may include suitable lecture courses or texts, or both.

II. *Colloquium:*—As for M.Sc. see above.

Examinations in Chemistry

Principal Subjects:

1. An examination is held in May of the second year. Additional special examinations are held during the third year.

2. Candidates who fail in the May examination of the second year are required to repeat the year and the examination in the principal subject.

Secondary Subjects:

1. All examinations are available in May and September for candidates in the first two years.

2. A supplemental examination in any subject may be taken only on recommendation by the Department.

3. Examinations in all subjects must be passed by the end of September of the candidate's third year.

4. For candidates entering the third year, the September examinations are supplemental examinations only.

General:

1. A candidate who may wish to take examinations in any one or more secondary subjects in September of his entrance year is advised to consult the chairman of the Department as soon as possible.

2. In a secondary subject a Master of Science examination at McGill will be accepted as a Preliminary Ph.D. examination provided a standard required by the Department is obtained.

Also, candidates who believe they have the necessary qualifications may apply to the director of their research for exemptions from examinations in secondary subjects. Such qualifications include a high standing in an examination taken at McGill or other University in the secondary subject. The director of the candidate's research may grant this exemption only with the approval of the Department.

DEPARTMENT OF CHEMISTRY
(Macdonald College)

Professor.....W. D. McFarlane
Associate Professor.....W. A. DeLong
Assistant Professor.....G. H. Benham
Research Fellow.....Moritz Michaelis
Research Associate.....D. Siminovitch

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Chemistry of Soils.....Professor DeLong.
Two lectures per week—second term. (Not given in 1944-45).

B. Plant Biochemistry.....Professor DeLong.
Two lectures per week—second term.

C. Food Analysis.....Professor McFarlane.
Two lectures per week—both terms.

D. Industrial Utilization of Farm Products..Professor McFarlane.
Two lectures per week—first term.

Special laboratory work (three hours per week) may be required in any of these courses.

Requirements for the Master's Degree

1. Students may elect to conduct their research in Soil and Plant Chemistry (Group I) or in Physiological Chemistry (Group II).
2. Unless in special circumstances students are required to take the examinations of Group I or Group II.

Group I.—Major subjects—Courses A and B.

Cognate subjects—Either Advanced Organic or Advanced Physical Chemistry (McGill Department of Chemistry Courses A and F); Plant Physiology (Department of Botany Course B).

Group II.—Major subject—Course C.

Cognate subjects—Advanced Organic Chemistry (McGill Department of Chemistry Course A) and Recent Advances in Biochemistry (McGill Department of Biochemistry Course A).

3. Students are required to attend and participate in the department seminars.

Requirements for the Degree of Doctor of Philosophy

Special arrangements may be made for the Ph.D. degree in association with the McGill Department of Chemistry. Agricultural Chemistry is regarded as the principal subject and courses taken in the other departments mentioned in Regulation 3 (page 749) as secondary subjects.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors.....R. E. Jamieson, Ernest Brown, R. DeL. French

Associate Professor.....G. J. Dodd

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Statically Indeterminate Stresses.
First term, two hours tutorial, and six hours computation and reports.
Professor Jamieson.

B. Technical Elasticity.
First term, two hours tutorial, and six hours computation and reports.
Professor Jamieson.

C. Secondary Stresses.
First term, two hours tutorial, and six hours computation and reports.
Professor Dodd.

D. Highway Engineering.
Four hours tutorial, and twelve hours computation and reports.
Professors French and McKergow and staff.

Candidates for the M.Eng. degree will be expected to take at least two courses in addition to thesis work.

DEPARTMENT OF CLASSICS

Professors.....{William D. Woodhead
C. H. Carruthers
Associate Professor.....A. M. Thompson

Courses for the Degree of Master of Arts

Greek A: Greek Lyric Poetry. Readings from the Anthologia Lyrica Græca and other texts.
Two hours colloquia.....Professor Woodhead.

Greek B: History of the Epigram
Two hours colloquia.....Professor Carruthers.

Greek C: The Republic of Plato.
Three hours.....Professor Woodhead.

Greek D: Aeschylus, Oresteia.
Two hours colloquia.....Professor Woodhead.

Latin A: Vergil, Aeneid.
Three hours.....Professor Thompson.

Latin B: Roman Satire.
Three hours.....Professor Thompson.

Latin C: Latin Epigraphy and Palæography.
Two hours colloquia.....Professor Carruthers.

Latin D: Roman Tragedy.
Two hours colloquia.....Professor Woodhead.

Courses in Comparative Philology

Professor.....C. H. Carruthers

A. Introduction to the Study of Language.

B. Latin Historical Grammar.

C. Greek Historical Grammar.

D. Elementary Sanskrit.

E. Greek Dialects.

F. Oscan and Umbrian.

All courses are colloquia of two hours weekly.

No courses will be offered during the session 1944-45.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

Professors.....{J. P. Day, B. H. Higgins, B. S. Keirstead

Assistant Professors.....{J. T. Culliton*, E. F. Beach

Sessional Lecturer.....P. F. Vineberg

Courses for the Degree of Master of Arts and Master of Commerce

A. Contemporary Economic Theory.
First term.....Members of the Department

B. World Economic Survey Since the Great War.
Second term.....Professor Day.

C. Economic Journal Group.....Members of the Department.

Students who have completed three full courses or their equivalent in the Department of Economics at Macdonald College, and have also completed at least two full courses or their equivalent in the Department of Economics and Political Science, with at least second class honours, are permitted to proceed toward the degree of Master of Arts.

In addition to these courses, a thesis must be written on a subject approved by the Department. The thesis shall constitute the major part of the work done.

Courses for thr Degree of Doctor of Philosophy

1. First year of study:—The M.A. course and successful candidacy for the M.A. degree.

2. Second year:—An approved course of study at a University other than McGill in continuance of the work on the thesis subject already selected.

3. Third year:—Resident study at McGill under the general supervision of the Department, with no fixed hours or fixed units, the work to bear on the thesis subject, such thesis to represent a genuine and useful contribution to the literature of Economics and Political Science.

4. The order of study of the Second and Third Year may be reversed.

5. The holder of a position on the staff of McGill may count his years in such a position as equal to resident study in the ratio of two teaching years to one of study.

*On Military Service.

DEPARTMENT OF EDUCATION

Professor.....JOHN HUGHES
Associate Professor.....A. B. CURRIE

CONDITIONS OF ADMISSION:

Candidates for the degree of M.A. in Education must show (a) that they have satisfied the general conditions for registration as candidates for the M.A. degree as laid down on page 746 of the Announcement, or achieved distinction in the general course; (b) that they have attained a high standard (i.e. at least good second-class standing) in the work of the graduate year of training for the Teachers' High School Diploma, or its equivalent. On occasion, however, specially selected students may be permitted to work concurrently for the High School Diploma and for the M.A. degree in some relevant subject; in such cases the work for the M.A. must be spread over two years.

Candidates must also have done work in Psychology that is adequate for the needs of the M.A. course in Education, or else must complete an approved course in Psychology as part of their M.A. course.

COURSES FOR THE DEGREE OF MASTER OF ARTS

Satisfactory completion of the following courses and studies is required.

A. Seminar courses in two of the following:—
   (1) Secondary Education.*
   (2) Comparative Education.
   (3) Bilingual Education.

B. Studies of
   (1) The History of Education in Canada.
   (2) A Selected Period or Topic in the General History of Education.

C. An approved course in Philosophy, or Psychology (prerequisite—two courses, including Course I).

D. Thesis.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professor.....CLARENCE V. CHRISTIE
Associate Professor.....G. A. WALLACE
Assistant Professors.....E. G. BURR, F. S. HOWES
Lecturer.....W. H. SCHIPPEL

Adequate laboratory and library facilities are available for the courses listed below and for research.

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*In special cases candidates may substitute an approved course in Educational Psychology for this requirement, but they must then take the Philosophy course specified under C.

Courses for the Degree of Master of Science or Master of Engineering

A. Advanced Mathematics.
Lectures, two hours a week

B. Electrical Physics.
Lectures, two hours

C. Electrotechnics.
Lectures, two hours.
Colloquium, two hours.

The following courses are offered (each two hours for one term):—

(a) Design of Electrical Machinery. Professor Christie.

(b) The Protection of Electrical Power Systems .....Mr. Schippel.

(c) Stability of Electrical Systems under normal and transient conditions; determination of short-circuit currents; design of generators and excitation systems for maximum stability.
Professor Christie and Mr. Schippel.

(d) Inductive Co-ordination of Power and Communication Systems.
Professors Christie and Wallace.

Evening Courses in Electrical Communication Engineering leading to the Degree, Master of Engineering

The following courses will be given in the evenings if a sufficient number of candidates apply.

E. Radiation Theory.
(Course G or its equivalent is prerequisite to course E.)

F. Communication Networks.
Dr. H. G. I. Watson (Dept. of Physics).

G. Mathematical Methods in Engineering.
Professor F. M. Wood (Dept. of Civil Eng.) and Dr. G. Pall (Dept. of Maths.).
(Differential Equations 201 or its equivalent is prerequisite to course G).

H. Communication Apparatus Design
Dr. F. S. Howes in collaboration with a number of industrial designers.

I. Advanced Radio Engineering.....Dr. F. S. Howes.

J. Advanced Wire Transmission Theory.
Professor G. A. Wallace.

K. Inductive Co-ordination of Power and Communication Systems.....Professor G. A. Wallace.

Each of the courses E to I is covered in one two-hour lecture per week throughout the session. Courses J and K are covered in one two-hour lecture per week for one term only.

For the Master's degree in Communication Engineering four two-term courses must be completed, of which one must be course (G) or its equivalent.

Thesis: In addition to the courses required for the Master's degree in either Electrical Power or Communication Engineering, a thesis must be submitted based on research or development work carried on by the student in one or other of these fields. The subject of the thesis must be approved by the Department of Electrical Engineering at the beginning of the year in which it is to be submitted.

DEPARTMENT OF ENGLISH

Professors.....{Cyrus Macmillan, Harold G. Files
Associate Professor.....A. S. Noad*
Assistant Professor.....T. F. M. Newton*
Lecturer.....Gertrude Mason

Courses for the Degree of Master of Arts

A. Old English.

Prerequisite:—English 12 (in the undergraduate course).
Two hours.....Miss Mason.

B. The English and Scottish Popular Ballads, with some attention to Canadian Folk-songs and Folk-tales and their relation to those of Europe. Lectures and theses.
Two hours.....Professor Macmillan.

C. Chaucer.

Prerequisite:—English 14 (in the undergraduate course).
Two hours.....
(Not given in 1944-1945).

*On War Service.

D. THE DRAMA IN ENGLAND FROM 1660 TO THE PRESENT TIME.
Two hours.....Professor Macmillan and Miss Mason.
(Not given in 1944-1945).

E. PRE-SHAKSPERIAN DRAMA.....Miss Mason.

*F. SHAKSPERE (SIX PLAYS).
Mon., Wed., Fri., at 10.....Professor Macmillan.

*G. ENGLISH POETRY FROM 1798 TO THE PRESENT TIME.
Mon., Wed., Fri., at 11.
Professor Macmillan, Professor Noad and an Assistant.
(Not given in 1944-1945).

H. ENGLISH NOVELISTS, FROM RICHARDSON TO THE PRESENT TIME.
Tu., Th., Sat., at 10.....Professor Files.

*I. THE ENGLISH DRAMA, 1590-1642.
Two hours.....Professor Macmillan.

*J. OLD ENGLISH.
Mon., Wed., Fri., at 2.....Miss Mason.

*K. THE TECHNIQUE OF THE DRAMA.
Lectures and demonstrations in Moyse Hall, Tu., at 10 a.m. Laboratory hours to be arranged.
Mr. Dando, Miss Jackson and Assistants.

*L. CHAUCER.
Tu., Th., Sat., at 12.....Miss Mason.

*M. COMPARATIVE LITERATURE.
The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries.
Three hours.....

*N. COMPARATIVE LITERATURE.
A study of some literary types from the Renaissance to the present day, with particular reference to the influence of Continental Literatures upon English.
Tu., Th., Sat., at 9.....
(Not given in 1944-1945).

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*Courses marked with an asterisk are undergraduate Honours courses in the Faculty of Arts and Science, which may also be followed by graduate students who have not already taken them.

O. MEMOIRS AND MEMOIR WRITERS AND EPISTOLARY LITERATURE, LITERATURE OF PERSONAL REVELATION.
An intensive study of special problems.
Two hours.....
(Not given in 1944-1945).

P. THE DEVELOPMENT OF THE ENGLISH PERIODICAL.
Two hours.....
(Not given in 1944-1945).

Q. MYSTICAL AND OTHER RELIGIOUS LITERATURE IN ENGLISH DURING THE LATER SEVENTEENTH AND THE EIGHTEENTH CENTURIES.
Two hours.....Professor Files.

R. LITERARY CRITICISM.
Two hours.....Professor Files.

S. SHAKSPERE. A study of special topics.
Two hours.....Professor Macmillan.

T. AN ADVANCED COURSE IN THE TECHNIQUE OF THE DRAMA.
Prerequisite:—Course K or its equivalent.
Two hours and laboratory periods.
Mr. Dando, Miss Jackson and other members of the Department.

U. THE LITERATURE AND CULTURE OF THE RENAISSANCE.
Two hours.....
(Not given in 1944-1945).

V. SPECIAL STUDIES IN RESTORATION LITERATURE.
Two hours.....Professor Newton.
(Not given in 1944-1945).

W. A SPECIAL STUDY OF THE FIELD IN WHICH THE THESIS IS WRITTEN.
Professors Macmillan, Files, Miss Mason.

X. SPECIAL STUDIES IN 18TH CENTURY LITERATURE.
Professor H. G. Files.

GRADUATE COURSES

Candidates for the degree of M.A., taking English as their only subject, must select three courses,—of which two must be from A to D (inclusive), and O to X, while J, or its equivalent, is compulsory, and (W), a course of special study in the field in which the thesis is written.

DEPARTMENT OF ENTOMOLOGY
(Macdonald College)

Professor.....W. H. BRITTAIN
Assistant Professor.....E. M. DUPORTE
Lecturers.....W. E. WHITEHEAD, F. O. MORRISON

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. TAXONOMY.

Each student must bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.

One lecture, one colloquium and four laboratory hours per week.
Professor DuPorte.

B. INSECT MORPHOLOGY.
One lecture, one colloquium and four laboratory hours per week.
Professor DuPorte.

C. ECONOMIC ENTOMOLOGY.

(a) *Principles of Insect Control.*

Two lectures per week and four colloquia.
Professor Brittain and Dr. Morrison.

(b) *Problems of Insect Control.*

Four laboratory hours per week throughout the year.
Professor Brittain and Dr. Morrison.

D. MEDICAL AND VETERINARY ENTOMOLOGY.

Two lectures, three laboratory hours per week for one term.
Professor DuPorte.

*E. ECOLOGY.

Two lectures a week, first term.....Professor DuPorte.

F. INSECT PHYSIOLOGY.

Two lectures and four laboratory hours per week.
Professor DuPorte.

G. SEMINAR.

One and one-half hours weekly.
Professors Brittain and DuPorte.

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*This course is also open to advanced undergraduates.
(Not given in 1944-1945.)

H. RESEARCH IN ENTOMOLOGY.

Four laboratory periods per week.

Professor Brittain and Dr. Morrison.

Students are recommended to take courses offered by the Department of Zoology either as part of their major work or as a minor or cognate subject.

M.Sc. Requirements: In addition to writing a thesis, a student is required to take either Course A or Course B and one other course in addition to the Seminar. Students who have not obtained honour standing in the undergraduate courses in Entomology at Macdonald College, or the equivalent, will be required to take a qualifying year prior to being admitted to graduate work.

Ph.D. Requirements: The Ph.D. in Entomology may be awarded after the following requirements have been completed:

1. The student must spend two years of resident study and research at Macdonald College, and another year, taken preferably between these two years, at an approved institution other than McGill.
2. The student is also required to spend the equivalent of two summer seasons in research work at a Government laboratory or other approved research institution.

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DEPARTMENT OF EXPERIMENTAL MEDICINE

Professor.....J. C. MEAKINS
Assistant Professor.....J. S. L. BROWNE
Research Fellow.....ELEANOR M. VENNING

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Candidates for a Master of Science degree in Experimental Medicine must have had a high standing in the courses for the degree of Doctor of Medicine, or, in the case of those candidates without an M.D. degree, at least second class honours in their Undergraduate courses, particularly in the subjects of Physiology and Biochemistry, and candidates for the degree of Doctor of Philosophy must have obtained a high standing in the Master of Science degree if this has been taken.

A. SEMINAR. Experimental Medicine.
One hour a week.....Dr. Browne.

B. LECTURES. A weekly Course on selected topics in Endocrinology and allied subjects.....Dr. Browne.

C. Conferences will be held with candidates, guiding them in their reading and for criticism of their research.

D. Cognate Subjects. Each student will be required to take certain Courses in cognate subjects, depending upon the special field of Medicine in which his research work is directed.

All candidates for this degree must take all of the above courses and devote the remainder of their time to experimental research, the accomplishment of which, as embodied in their thesis, will be the main consideration in recommending them for this degree.

Requirements for the Degree of Doctor of Philosophy

The above courses are continued throughout the first two years of graduate study while the final year is entirely devoted to research and this must be of a fundamental and far-reaching character.

Advanced Study

In addition to courses leading to the M.Sc. and Ph.D. degrees, the Faculty of Medicine offers opportunities for advanced study in the clinical field to properly qualified graduates who are willing to spend at least six months or a year on intensive work.

For information on such advanced study, graduates should apply to the Secretary of the Faculty of Medicine, McGill University.

DEPARTMENT OF FRENCH

Associate Professor.....J. L. Darbelnet
Assistant Professors.....Lucie Touren Furness
Louis d'Hauteserve*
Sessional Lecturer.....Mme. P. L. Larivière

Courses for the Degree of Master of Arts

A. Literary Criticism. (Department of English, Course R).
Two hours.

B. La critique littéraire.
One hour.....Professor Darbelnet.

C. Montaigne.
One hour.....Mme. Larivière.

D. Exercices pratiques (Colloquia).
One hour.

*On leave of absence.

*E. HISTOIRE DU ROMAN EN FRANCE.
Three hours. (Given in 1944-45).....Professor Darbelnet.

*F. HISTOIRE DE LA LANGUE FRANÇAISE.
One hour. (Given in 1945-46).....Professor d'Hauteserve.

*G. HISTOIRE DE LA POÉSIE LYRIQUE EN FRANCE.
Two hours. (Given in 1945-46).....Mme. Larivière.

*H. LA LITTÉRATURE FRANÇAISE CONTEMPORAINE.
Three hours. (Given in 1944-45).....Mme. Larivière.

I. LE CONTE DANS LA LITTÉRATURE FRANÇAISE.
One hour. (Given in 1944-45).....Professor Furness.

K. COURS DE TRADUCTION.....Professor Darbelnet.

Candidates for the Master's degree in French only will take A, B, C, I, and K.

Those taking French as a Major will omit A and either B or C.

Those taking French as a minor will take D and one of the one-hour courses.

The M.A. thesis must be written in French.

Students from other Provinces and States where the opportunities of speaking French are small cannot normally obtain an M.A. in less than two years.

REGULATIONS FOR THE MASTER OF ARTS DEGREE

1. All work carried on towards an M.A. degree in the French Summer School is under the control and supervision of the Department of French in the Faculty of Graduate Studies of the University.

2. Requirements for the Master's degree:
   (a) The student must hold the degree of B.A. from McGill University or from another institution of recognized standing, with at least second class honours in French, or the equivalent of second class honours in French as granted by McGill University—which must include an ability to speak French fluently, and a sound knowledge of French literature.
   (b) A student qualified as in 2 (a), must complete four sessions in the Advanced Section of the French Summer School with at least second class standing in the final examinations of each session.
   (c) The student must prepare and present a thesis, written in French, which must be in some measure a contribution to knowledge. Its preparation is carried out under the direction of the French Department.

*These are also Honours courses in the Faculty of Arts and Science.

3. Students applying for admission to the Advanced Section of the Summer School, with the intention of proceeding towards the M.A. degree, should, as soon as possible, have a transcript of their academic record sent for appraisal to the Director of the School.
Students whose record is considered the equivalent of the B.A. degree with at least second class honours in French as granted by McGill University will be notified of their eligibility for future admission to the Faculty of Graduate Studies of the University. At the end of their second session they will be allowed to register in that Faculty as candidates for the M.A. degree, provided they have completed the course requirements for the first two sessions.
Students who hold a B.A. degree but whose record is not considered the equivalent of the McGill B.A. with at least second class honours in French, may be allowed to make up the deficiency by taking more courses during their third and fourth summer session. They will also register in the Graduate Faculty at the end of the second summer session, provided that they have obtained at least a high second class standing in the courses of the first two summer sessions.

4. In the case of students of honours standing, the first summer session consists of five courses, the second of four courses, the third of three courses, and the fourth of two courses, each course consisting of three lectures per week. The decreasing number of courses through the four sessions enables the student to devote more time to the preparation of his thesis, which must begin in the third session at latest. Each student works under the guidance of a director of research who is a member of the French Summer School Staff. The only listed course which may be taken for credit in more than one session is No. 27, Advanced Composition (see below).
The following courses are compulsory:
No. 37—Modern Criticism (to be taken preferably in the third session).
No. 32—Comparative Literature, unless a full course in the same subject has already been taken as part of the student's undergraduate work.
No. 27—Advanced Composition. A minimum mark of 65% must be obtained in the final examination of this course, irrespective of the final average for the set of courses taken during the session. The course must be repeated until this requirement has been met. As its material is varied each year, it can be taken a second summer for credit. If taken more than twice, it must then be carried as an extra course.
The course in Advanced Oral Practice, No. 29, can not be taken for M.A. credit in the third or fourth summer.

5. With the approval of the Graduate Faculty, one of the summer sessions, except the first, may be replaced by equivalent work in France or at another French Summer School.

DEPARTMENT OF GENETICS

Professor.....C. LEONARD HUSKINS
Lecturer.....S. S. STEPHENS
Lecturer.....H. G. F. SANDER
Research Fellow.....S. G. SMITH

COURSES FOR HIGHER DEGREES

With the co-operation of the Department of Botany, the Faculty of Agriculture and the Montreal Botanical Garden adequate laboratory, greenhouse, field and library facilities are available for research in Plant or Animal Genetics and Cytology.

A. CYTOLOGY.
2nd term.

B. CYTOGENETICS AND MECHANICS OF EVOLUTION.
1st term.

C. BIOMETRY. Applications of statistics to research problems in biology.

D. SEMINAR. A course entailing the presentation by each student of at least six reports on current researches in Cytology and Genetics.

E. COLLOQUIUM.

F. DEVELOPMENTAL GENETICS.
2nd term.

BOTANY A, B OR C, ZOOLOGY A or C, and other subjects cognate to Genetics or Cytology may be required.

REQUIREMENTS FOR THE DEGREE OF MASTER OF SCIENCE

Three of the above courses are required for the Master's degree in addition to a thesis on a research problem.

A sound knowledge of General Biology is prerequisite.

The research problem may be in Genetics or Cytology, or Cytogenetics.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Only candidates who have shown indications of distinct research ability during their Master's training will be permitted to register for the Ph.D. degree. Course F must be taken in each year, and students must participate in the Departmental Colloquium. See general Regulations for further requirements.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....{John J. O'Neill, Richard P. D. Graham, T. H. Clark
Associate Professors.....{J. E. Gill, F. F. Osborne

Courses for the Master's Degree

A. Structural Geology.
Lectures and colloquia; Tu., and Th., at 10....Professor Gill.

B. Geological Colloquium.—This course must be taken by all graduate students in Geology in the first and second years.
Professor Osborne.

C. Ore Deposits.—As in "Mineral Deposits," by Lindgren, and assigned readings and problems.
Seminar, Mon. and Th. at 2....Professors O'Neill and Osborne.

*D. Optical Mineralogy.
One lecture Mon. at 10, and three hours laboratory per week during the first term.....Professor Graham.

E. (a) Petrology and Petrography.—Lectures Mon., Wed., and Fri., at 9. Laboratory Tues., Wed., and Fri., 2 to 5.
Text-books:—Bowen, Evolution of Igneous Rocks, Princeton; Tyrrell, Principles of Petrology, Dutton; Harker, Metamorphism, Methuen.

*F. Stratigraphy.
Two hours, first term; Mon., Fri., at 11. One hour laboratory, and two full days field work during October....Professor Clark.

*G. Palaeontology.—Two hours, second term; Mon., Wed., at 11. Three hours laboratory, Wed., 2 to 5, and one full day's field work in April.....Professor Clark.

*H. Physiography and Natural Resources of Canada.—Lecture Tu. at 12, and laboratory Th., 2 to 5.....Professor Gill.

Students who have satisfactorily completed undergraduate courses in General Geology, Mineralogy, Petrography, Stratigraphy, and Ore Deposits, or their equivalents, may expect to complete their M.Sc. course in one year; those specializing in Economic Geology must have certain Engineering credits in addition to the above. On that basis three graduate courses are normally required for the M.Sc. in addition to the thesis.

*Courses so starred are rated undergraduate.

Courses for the Degree of Doctor of Philosophy
(Second and Third Years)

I. Geology and Problems of the Pre-Cambrian.
Lectures and seminar at least two hours per week; first term; Mon. and Th. at 10.....Professor O'Neill.

J. Geological Map Interpretation.
One hour seminar with assigned problems.
Fri. at 10.....Professor Gill.

*K. Applied Geophysics (Physics; Graduate "W"). A course on the theory and practice of geophysical methods as applied to problems in engineering and geology.
Mon. and Wed. at 9. First term.....Professor Keys.
Text-book:—"Applied Geophysics," 2nd edition, Eve and Keys (Cambridge Univ. Press).

L. Advanced Petrology and Petrography.—Seminar and at least nine hours laboratory work per week. Mon. and Fri. at 2; Wed. at 9.....Professor Osborne.

M. Advanced Mineralogy.
Three hours seminar and laboratory per week.
Professor Graham.

N. Advanced Stratigraphy.
Hours to be arranged.....Professor Clark.

O. Physiography.
Seminar Fri. at 11.....Professor Gill.

P. Advanced Palæontology.
Hours to be arranged.....Professor Clark.

†Q. Advanced Economic Geology.
Seminar, Tu. and Fri. at 2.....Professors O'Neill. Gill, and Osborne.

†R. Advanced Structural and Dynamical Geology.—As in "Das Antlitz der Erde," vols. 1, 2, 3, and 4, by E. Suess, and numerous assigned papers.
At least two hours seminar per week. Tu. and Fri. at 2.
Professor O'Neill.

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†Courses Q and R may be given in alternate years.
*Courses so starred are rated undergraduate.

DEPARTMENT OF GERMAN

Associate Professor.....W. L. Graff

Courses for the Degree of Master of Arts

A. Goethe.
One hour.....Professor Graff.

B. Lessing.
One hour.....Professor Graff.

C. Die Romantik.
One hour.....Professor Graff.

D. From Naturalism to Expressionism.
Three hours.....Professor Graff.

E. Aus Der Geschichte Der Deutschen Lyrik von Goethe bis in die Neuzeit.
One hour.....Professor Graff.

F. Gothic and Introduction to Germanic Philology.
One hour.....Professor Graff.

Courses D and E are advanced Honours Courses in the Faculty of Arts and Science which may be selected by candidates for the M.A. degree if they have not already taken them.

When German is taken as the only or major subject two courses are selected from A, B, C, D, in consultation with the Department. If the candidate has never taken the undergraduate course in Middle High German Language and Literature or its equivalent, he must make up for this deficiency. A student intending to proceed to the Ph.D. degree at another university is strongly recommended to take course F in addition to the two selected. The thesis must be written in German.

When German is the minor subject chosen by the candidate one course is selected from A, B, C, D, in consultation with the Department, and the other course is E. The Middle High German requirement is not essential in this case.

DEPARTMENT OF HISTORY

Associate Professor.....E. R. Adair
Assistant Professor.....C. C. Bayley
Assistant Professor.....J. I. Cooper
Sessional Lecturer.....W. S. Reid
Research Fellow.....Jean Lunn

Courses for the Degree of Master of Arts and Doctor of Philosophy

A. Historical Method and Criticism.
Seminar, one hour.....Professors Adair, Bayley and Cooper.

B. The History and Personnel of the English House of Commons in the Late 14th Century.
Seminar, one hour.....Professor Bayley.

C. The Wyclifite Movement in its Religious and Social Aspects.
Seminar, one hour.....Professor Bayley.

D. Scotland on the Eve of the Reformation.
Seminar, one hour.....Dr. Reid.

E. The Seventeenth Century.
Seminar, one hour.....Professor Adair.

F. English History, 1870-1914.
Seminar, one hour.....Dr. Reid.

G. A Selected Period in the History of French Canada, down to 1800.
Seminar, one hour.....Professor Adair.

H. A Selected Topic in Canadian History, 1800-1900.
Seminar, one hour.....Professor Cooper.

I. History of a Quebec Parish.
Seminar, one hour.....Professor Adair.

The Department of History is prepared to direct the research of graduate students in any one of the following fields: (1) English history in the later Middle Ages; (2) The constitutional evolution of the Holy Roman Empire in the thirteenth century; (3) Scottish history in the fifteenth and early sixteenth centuries; (4) English and French history in the sixteenth and seventeenth centuries; (5) English history, 1870-1914; (6) Certain aspects of English economic history; (7) The history of New France; (8) The history of the French and English in the province of Quebec; (9) General history of English-speaking Canada.

Graduate work in the Department of History is directed through seminars and conferences. Students are expected to acquire a sound knowledge of methods of historical research and the ability to apply them in practice. Candidates both for the M.A. and for the Ph.D. are therefore required to take Course A, and to take the prescribed examination. The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students pursuing research in Canadian History will be required, as occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

Candidates for the degree of Master of Arts will take the appropriate seminar or seminars and will also prepare a thesis upon some subject to be selected from within the scope of one of the seminars they are taking;

the thesis must be the product of real research on a subject hitherto imperfectly explored, and is regarded as the major test in determining the candidate's fitness for this degree.

The Ph.D. degree will be awarded on a course of study and research extending over three or more years. The first year of study for honours graduates of McGill University in History will consist of the M.A. course as outlined above; for graduates of other Universities, of this course or its equivalent. The second and third years shall consist of:—

(a) Resident study and research at McGill University under the general supervision of the Department, and directed in the appropriate seminar or seminars, the work to bear on the thesis subject, and to include the preparation of the thesis, which must represent a genuine contribution to historical scholarship. It is desirable that the thesis should be a development and expansion of the work done for the M.A.

and (b) Resident study and research elsewhere for one of these years, or in the case of McGill graduates, if desirable, for both of these years, at an approved University or repository of archives in continuance of the work upon the thesis subject already selected. In all such cases the approval of the Faculty is required.

The preliminary Ph.D. examination requirements (discussed in the Announcement, in section 5 of the regulations for the degree of Doctor of Philosophy), will be replaced by a report from the Department of History on the general work and ability of each candidate and by a general examination on the historical background of the subject on which the thesis is to be written; this examination can be taken either at the end of the first year or during the second, as decided by the director of the student's studies.

Candidates are advised to satisfy the language requirements for the degree of Doctor of Philosophy as early as possible in their course; they should consult the Department as to the selection of the two foreign languages in which they propose to be examined, as these must be chosen for their bearing upon the candidate's special field and the special subject of his research.

After the thesis has been approved, the candidate will take the usual oral examination upon his special field of research.

DEPARTMENT OF HORTICULTURE

(Macdonald College)

Associate Professor.....H. R. Murray
Lecturer.....A. N. Nussey

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Pomology.
Lectures and colloquium, three hours per week.
Laboratory, three hours per week.

B. Vegetable Crops.
Lectures and colloquium, three hours per week.
Laboratory, three hours per week.

C. Experimentation. (See Course A.—Department of Agronomy).

D. Plant Physiology. (See Course A.—Department of Botany).

E. Advanced Genetics and Cytology. (See Course B.—Department of Genetics).

Requirements for the Degree of Master of Science

1. A candidate must select either Course A or Course B, and Course C, together with at least one of the following: Course D, Course E, or any other course in a cognate subject approved by the Faculty.
2. The research problem must be approved by the Departments of Horticulture and Botany.
3. The candidate must spend one summer in the Department before or during the course, or have its equivalent at some other approved institution.

DEPARTMENT OF MATHEMATICS

Professors..... Charles T. Sullivan; Neil Bruce MacLean; Albert H. S. Gillson; W. L. G. Williams
Associate Professor.....Herbert Tate
Associate Professor.....Gordon Pall
Sessional Lecturer.....E. Rosenthall

Courses for the Master's Degree

**A. Introduction to the Theory of Functions of a Real Variable.
Three hours.....Mr. E. Rosenthall.

**B. Introduction to the Theory of Functions of a Complex Variable.
Three hours.....Professor Sullivan.

**Open also to undergraduates of the Fourth Year in the Honour course.

C. The Theory of Numbers.
Two hours.....Professor Pall.

D. Methods of Mathematical Physics.
Two hours.

E. Differential Geometry.
Two hours.....Professor Sullivan.

F. Differential Equations and Advanced Calculus.
Two hours.....Professor Pall.

G. Theory of Generalized Relativity or Wave Mechanics.
Two hours.

H. Theory of Algebraic Plane Curves.
Two hours.....Professor Sullivan.

I. Calculus of Variations.....Professor MacLean.

J. Projective Geometry.....Professor Tate.

K. Infinite Series.
Two hours.....Professor Williams.

L. Seminar in Algebra and Theory of Numbers.
Two hours.....Professors Williams and Pall and Mr. Rosenthall.

Courses A, B, D, are given annually. An additional one of the courses listed above will be given, if a sufficient number of qualified students present themselves.

Students taking a minor in Mathematics for the M.Eng. degree must have as preliminary training the Mathematics required of undergraduates in Engineering, with an additional more advanced course in Mathematics.

(See also Course G in the Department of Electrical Engineering).

Students taking a minor in Mathematics for the degree of M.A. or M.Sc. must present courses in Mathematics equivalent to those required in the first three years of the Honours course in Mathematics and Physics, together with one additional course approved by the Department.

For a minor in Mathematics for the Ph.D. degree the student must have the equivalent of the Mathematics required in the Honours course in Mathematics and Physics, and an additional graduate course in Mathematics.

DEPARTMENT OF MECHANICAL ENGINEERING

Professors.....Arthur R. Roberts, Charles M. McKergow
Assistant Professor.....James A. Coote

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Engineering Thermodynamics. Prerequisites, *Courses 228, 229 and 251.

Three hours colloquia.....Professor McKergow.

B. Machine Design. Prerequisites, *Courses 225 and 242.

Three hours colloquia.....Professor Roberts.

C. Industrial Engineering. Prerequisites, *Courses 252, 254, 258 or their equivalent.

Two hours lectures and two hours colloquia.....Professor Coote.

**These are the numbers of courses given in the Faculty of Engineering.*

DEPARTMENT OF MINING AND METALLURGICAL ENGINEERING

Professors.....Leigh W. Bladon, O. N. Brown, J. U. MacEwan
Associate Professor.....Gordon St. George Sproule
Lecturer.....M. D. O'Shaughnessy

Adequate laboratory and library facilities are available for the courses listed below and for research.

MINING ENGINEERING

Courses for the Master's Degree

*A. Mining Engineering. Courses 291 and 297 in the Faculty of Engineering (see Announcement of that Faculty).

B. Organization and Management of Mines.

Two lectures per week, session.....

C. The Cyanidation of Gold and Silver Ores.

One lecture per week, first term.....Mr. O'Shaughnessy.

D. Cyanidation Laboratory. Students who wish to supplement Course G are given one or two laboratory periods per week, second term.....Professor MacEwan and Mr. O'Shaughnessy.

*Undergraduate course open to graduate students who have not already taken it as undergraduates.

E. THE THEORY AND PRACTICE OF FLOTATION.
Two lectures per week, first term.....Mr. O'Shaughnessy.

F. FLOTATION LABORATORY. Students who wish to supplement Course E, are given one or two laborarory periods per week, second term.....Professor Brown and Mr. O'Shaughnessy.

G. MINE VENTILATION. Two lectures per week...Professor Brown.

H. MINE MECHANIZATION. Reading course.....Professor Brown.

Permission is given for two or more graduate students to work together on the physical part of an investigation, when the nature of the problem and the facilities in the laboratory make it desirable to do so.

No collusion in working up of results or in writing of the thesis is allowed.

METALLURGICAL ENGINEERING

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

A. GENERAL ADVANCED METALLURGY. Directed reading supplemented by two hours per week of colloquium and three hours per week of laboratory work.....Professors Sproule and MacEwan.

This may include a special study of one or more selected metals or of some special branch of Metallurgy such as Electro-metallurgy, Pyro-metallurgy, Metallography, etc.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

B. ADVANCED METALLURGY. Fourth Year Engineering, No. 272.
Two hours lectures, session.

C. ELECTRO-METALLURGY. Fourth Year Engineering, No. 275.
Three hours lectures, first term.

D. METALLURGICAL PROBLEMS AND DESIGN. Course 278 in the Faculty of Engineering (See announcement of that Faculty).

E. METALLOGRAPHY AND LABORATORY. Fourth Year Engineering, Nos. 280 and 281.
Two hours lectures, session; one laboratory period, second term.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

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Professor.....WILDER PENFIELD
Associate Professor.....WILLIAM CONE
(in charge of Graduate Studies)
Associate Professor.....COLIN RUSSEL
Lecturers.....ARTHUR ELVIDGE
DONALD MCEACHERN*
A. E. CHILDE
HERBERT JASPER
FRANCIS MCNAUGHTON

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. COLLOQUIUM, 1 hour, Fridays 5 P.M.
NEUROPATHOLOGY.....Professors Cone and Penfield.

B. LECTURE, 1 hour, Tuesdays 5.30 P.M.
Fundamental Introduction to Neurology including Neuroanatomy, Neurophysiology, Biological Chemistry and Roentgenology.....Drs. Elvidge, McEachern and Childe.

C. SEMINAR IN NEUROLOGY, 2 hours, Wednesday 5 P.M.
2 hours.....Professors Penfield, Russel and Cone.

D. SEMINAR IN NEUROSURGERY, 1 hour, Tuesdays 3.30 P.M.
1 hour.....Professor Penfield.

For the degree of Master of Science a candidate must satisfactorily complete three of the courses, listed as A, B, C and D above. He may substitute for one of these a course of equal rank in another Department of the Faculty of Graduate Studies and Research with the approval of the Chairman of the Department. The remainder of his time is to be devoted to experimental research, the accomplishment of which, as embodied in his thesis, will be the main consideration in recommending him for this degree.

For the degree of Doctor of Philosophy the above course requirements are made in each of the first two years of work. Other requirements are outlined under the general statement and regulations of the Faculty of Graduate Studies and Research.

In addition to the above formal courses the Department provides opportunity for advanced clinical study and laboratory research to properly qualified graduate students. The work of this Department is carried out chiefly in the Montreal Neurological Institute.

*On military service.

DEPARTMENT OF NUTRITION
(MACDONALD COLLEGE)

Professor of Animal Nutrition.....E. W. CRAMPTON (*Chairman*)
Assistant Professor of Nutrition.....MARGARET S. MCCREADY
Associate Professor of Poultry Husbandry....W. A. MAW
Professor of Biochemistry (McGill).....D. L. THOMSON

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

Adequate laboratory and library facilities are available for the courses listed below and for research.

A. EXPERIMENTAL TECHNIQUE.
Design of nutritional experiments; analysis and interpretation of data.
Two lectures per week, one term. Laboratory, minimum six hours per week, one term.....Professor Crampton.

B. POULTRY NUTRITION.
Quantitative requirements of poultry; study and interpretation of current nutritional research.
Two lectures per week, one term. Laboratory, minimum three hours per week, one term.....Professor Maw.

C. DIETETICS.
Dietary surveys; experimental cookery; food technology.
Hours variable and by arrangement.....Professor McCready.

*D. METABOLISM.
Two lectures per week for session.....Professor Thomson.

E. RECENT ADVANCES IN BIOCHEMISTRY (Course A—Department of Biochemistry, McGill).
One lecture per week for session.....Professor Thomson.

Students are required to attend and participate in the department seminars.

In addition to writing a thesis, students in Agriculture must take courses A and D and for those specializing in Poultry Husbandry, course B is also required. Household Science students must take courses A, C, and D. In special cases cognate courses may be substituted or added on the advice of the director of research.

Students who have satisfactorily completed undergraduate courses in Food Chemistry; Biophysics; Physiology; Fundamentals of Nutrition or their equivalents, may be able to complete their M.Sc. course in one year.

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*This is also an undergraduate course in the Faculty of Arts and Science.

DEPARTMENT OF PARASITOLOGY

(Macdonald College)

Professor.....THOMAS W. M. CAMERON
Lecturer.....I. W. PARNELL*
Research Fellow.....W. E. SWALES

Adequate laboratory and library facilities are available at the Institute of Parasitology for the courses listed below and for research.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A sound knowledge of general Zoology and of elementary Parasitology are pre-requisites.

A, B, and C comprise the main courses and further cognate courses from group E may be chosen, depending on the research problem selected and the candidate's previous training.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Candidates should have a degree in which Zoology is an important subject; when the special subject for research is an economic one, qualifications in Human or Veterinary Medicine or Agriculture are desirable; if the special branch of research is in Non-Economic Animals, a degree with honours in Zoology is desirable. A cognate subject from group E may be selected, but the examination in this should be completed by the end of the second year of study.

A. A SYSTEMATIC STUDY OF THE ANIMAL PARASITES OF MAN, DOMESTIC AND ECONOMIC ANIMALS.
Three hours.....Professor Cameron.

B. PRACTICAL PARASITOLOGY.
Four hours.....Professor Cameron and lecturer.

C. FIELD WORK: Parasitological surveys, Collections in the field. Methods of control.

D. MEDICAL AND VETERINARY ENTOMOLOGY. (See Department of Entomology, course D).
Two lectures, three laboratory hours per week, second term.
Professor DuPorte.

E. Cognate subjects relative to the subject of research, selected from Biochemistry, Pathology, Pharmacology, Physiology, Entomology, etc., as may be arranged.

*On military service.

DEPARTMENT OF PATHOLOGY

Professor.....G. Lyman Duff
Associate Professor.....Theo. R. Waugh
Assistant Professor.....C. L. Yuile
Lecturer.....J. E. Pritchard

The department offers adequate laboratory and library facilities in the Pathological Institute for morphological or experimental research and for the courses listed below leading to the degrees of Master of Science and Doctor of Philosophy in Pathology.

Qualification for Admission

Candidates for graduate degrees in Pathology must hold the degree of Doctor of Medicine or its equivalent and must have attained high standing in the courses leading to this degree, especially in the preclinical scientific subjects.

Courses for the Degree of Master of Science and Doctor of Philosophy

A. Recent Advances in Pathology.
Lectures on selected subjects in Pathology.
Professor Duff and Staff.

B. Colloquium.
Demonstration and discussion of current pathological material from the autopsy service of the Pathological Institute.
Two hours per week throughout the year.
Professor Duff and Staff.

C. Conferences.
Conferences will be held at regular intervals with graduate students for the purpose of guiding their reading and investigative work and for the discussion of special problems arising from their research.

D. Cognate Subjects.
Each student will be required to take certain courses in cognate subjects, the selection of which will depend upon the student's previous training and on the character of the research problem to be undertaken.

Any candidate for a graduate degree may be required to attend the undergraduate course in General Pathology and be prepared to pass a comprehensive examination in this subject.

A candidate for the degree of Master of Science must take courses A, B, and C, and at least one cognate course. The remainder of his time is to be devoted to morphological or experimental research. The quality of the student's investigative work as embodied in his thesis will be the main consideration in recommending him for this degree.

For the degree of Doctor of Philosophy the candidate must take courses A, B, and C throughout each year of study in addition to his research. Any cognate subjects required must be completed before the end of the second year.

As for the Master's degree, the quality of the research work as embodied in the Ph.D. thesis will be the main consideration in the award of this degree.

DEPARTMENT OF PHARMACOLOGY

Professor.....RAYMOND L. STEHLE
Assistant Professor.....K. I. MELVILLE

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates for higher degrees must present evidence of suitable preparation in Chemistry and Physiology and must have completed the course in Pharmacology as given to medical students.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

A. ADVANCED PHARMACOLOGY.

B. COLLOQUIUM.
One hour weekly.

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Special arrangements can be made for anyone desiring to proceed to a doctorate.

DEPARTMENT OF PHILOSOPHY

Professor.....R. D. MACLENNAN
Assistant Professor.....J. S. FULTON‡
Lecturer.....C. CURRIE

COURSES FOR THE DEGREE OF MASTER OF ARTS

*A. SOCIAL AND POLITICAL PHILOSOPHY. (Not given in 1944-45).

*B. FUNDAMENTAL PROBLEMS OF PHILOSOPHY.

*C. READINGS IN THE CLASSICS OF PHILOSOPHY, ANCIENT AND MODERN.

*D. SEMINAR ON CONTEMPORARY PHILOSOPHY.

E. Seminar courses will be offered on the special fields of Philosophy in which candidates are studying for their theses.

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*These courses are also open to undergraduates.

‡On War Service.

DEPARTMENT OF PHYSICS

Professors..... A. Norman Shaw, David A. Keys, J. Stuart Foster, Herschell E. Reilley

Assistant Professors.... H. G. I. Watson, F. R. Terroux

Adequate laboratory and library facilities are available for the courses listed below and for research in any of the main branches of physics. Equipments for investigations in spectroscopy, electrical measurements, electronic physics and geophysics have been specially developed. To provide an opportunity for research in nuclear physics and its applications, the construction of a new radiation laboratory and a cyclotron has been approved. (This project has been postponed, temporarily, on account of the war.)

With the permission of the Chairman of the Department, graduate students in Physics may arrange to take some of their required courses, and to undertake research at Macdonald College, the remainder of their courses being taken in Montreal.

Courses for the Degrees of Master, and Doctor of Philosophy

*A. Electrical Measurements. (Arts and Science, 6A.)
Tu., at 2, Wed. at 2, first term only; Laboratory, Tu. 3-5, Wed. 3-5, both terms.

Reference books:—Laws' Electrical Measurements (McGraw-Hill); Pidduck's Treatise on Electricity (C.U.P.); Hague's Alternating Current Bridge Methods (Pitman, London); Reich's Applications of Electron Tubes (McGraw-Hill).

*B. Light. (Arts and Science, 6B.) (Replaced by F in alternate sessions.†)
Sat. at 10; tutorial problem hour, Tues. at 11; laboratory, Th. 2-5.
Professor Keys.
Text-book:—Houston's Light (Longmans).
Reference:—Robertson's Physical Optics (Van Nostrand); Wood's Physical Optics (Macmillan); Drude's Physical Optics (Longmans).

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*These courses are undergraduate honours courses prerequisite to graduate work in Physics; but they are open to graduate students (1) choosing Physics as a minor or cognate subject, or (2) completing their entrance qualifications for graduate work in Physics.

†Courses B and F will be given in alternate sessions, as follows:—F in '45-'46 and B in '44-'45.

*C. ELECTROMAGNETIC THEORY. (Arts and Science, 7A.)

Tues. at 10.

Text-book:—Pierce's Electric Oscillations and Electric Waves (McGraw-Hill).

Reference:—J. J. Thomson's Electricity and Magnetism (C.U.P.).

*D. MATHEMATICAL PHYSICS. (Arts and Science, 7B.)

This course includes an introduction to quantum theory and nuclear physics.

Mon., Thurs. at 10.

Text-books:—Houston's Introduction to Mathematical Physics (Longmans); Page's Introduction to Theoretical Physics (Van Nostrand).

*E. MOLECULAR PHYSICS. (Arts and Science, 8A.)

Wed., Fri., at 10; laboratory, Mon. (or Tu.), 2-5.

Text-book:—Crowther's Ions, Electrons and Ionizing Radiations (Arnold).

Reference:—Richmyer's Introduction to Modern Physics (McGraw-Hill); Strong's Procedures in Experimental Physics (Prentice-Hall); Brown's Foundations of Modern Physics (Wiley).

*F. THEORY OF HEAT. (Arts and Science, 8B.) (Replaced by B in alternate sessions.†)

Mon., at 9; lab. Th. 2-5‡; tutorial problem hour, Sat. at 10.
Professor Shaw.

Text-book:—Roberts' Heat and Thermodynamics (Blackie).

*G. RADIOACTIVITY. (Arts and Science 9.)

Tues. at 9 and Thurs. at 11, second term; laboratory, Fri., second term, 2-5.....Dr. Terroux.

Reference:—Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.).

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*These courses are undergraduate honours courses prerequisite to graduate work in Physics; but they are open to graduate students (1) choosing Physics as a Minor or Cognate subject, or (2) completing their entrance qualifications for graduate work in Physics.

†Courses B and F will be given in alternate sessions, as follows:—F in '45-'46 and B in '44-'45.

‡The Department of Mining and Metallurgy kindly permits students to do additional practical tests in the Metallurgical Laboratory.

*H. APPLICATIONS OF VECTOR ANALYSIS. (Arts and Science 10.)§
Tues., at 10.

I. ADVANCED STATICS, DYNAMICS, HYDRODYNAMICS AND SOUND.§
Tues., at 11 and Wed., at 10.
Text-books:—Lamb's Higher Mechanics (C.U.P.).
References:—Lamb's Dynamical Theory of Sound (Arnold); Bateman, Dryden and Murnaghan's Hydrodynamics (N.R.C., U.S.A.); Goldstein's Fluid Dynamics (Clarendon).

J. KINETIC THEORY OF MATTER.§
Wed. at 11.....Professor Shaw.
Reference:—Loeb's Kinetic Theory of Gases (McGraw-Hill); Jean's Dynamical Theory of Gases (C.U.P.).

K. QUANTUM THEORY AND SPECTRUM ANALYSIS.
Wed., at 12.
Text-books:—Birtwistle's Quantum Theory of the Atom (C.U.P.); Ruark and Urey's Atoms, Molecules and Quanta (McGraw-Hill).

L. RELATIVITY.§
Sat. at 12.....Professor Gillson.

M. ADVANCED ELECTRICITY AND MAGNETISM.
Prerequisite—Course C.
Text-book:—Harnwell's Principles of Electricity and Electromagnetism (McGraw-Hill).
References:—Jeans' or Livens' Electricity and Magnetism (C.U.P.); Smythe's Static and Dynamic Electricity (McGraw-Hill); Terman's Radio Engineering (McGraw-Hill).
Tues. and Fri., at 10.....Professor H. G. I. Watson.

N. LABORATORY PRACTICE AND PHYSICAL MANIPULATION.§
Mr. H. T. Pye and Mr. S. Amesse.

O. THERMODYNAMICS.
(Alternate sessions, '44-'45, '46-'47 etc.)
Mon. at 10.....Professor Shaw.
Text-books: — Birtwistle's Thermodynamics (C.U.P.), and Roberts' Heat and Thermodynamics (Blackie).

P. ELECTRON THEORY.§
Thurs. at 10.....Professor Keys.
References:—Richardson's Electron Theory (C.U.P.), Lorentz' Theory of Electrons (Stechert); E. Bruche and O. Scherzer, Electronen Optik (J. Springer).

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*See note after * at foot of page 792.
§Not offered in '44-'45.

Q. HEAVYSIDE'S OPERATIONAL CALCULUS.§
One hour.

**R. ASTROPHYSICS.§
Three hours per week.
References:—Russell's Astronomy, vol. I and II (Ginn); Dingle's Astrophysics (Collins); Stratton's Astronomical Physics (Methuen); Eddington, Internal Constitution of the Stars (C.U.P.).

S. MATHEMATICAL PHYSICS, WAVE MECHANICS, ETC.§
This class is divided into two sections, S1 and S2, elementary and advanced. S2 may be taken as a continuation of S1. Usually these courses will alternate in successive sessions.
Two hours.

T. (a) LOGIC OF PHYSICS. (Ten lectures).§
(b) ELECTRONS IN SOLIDS. (Fifteen lectures).§
The thermionic, photoelectric and optical properties of metals; photo-conductance in insulators; discussion of recent theories. Tu. and Fri. at 12 (first term only).

U. STATISTICAL MECHANICS.§
Tu. and Fri. at 12 (first term only).
References:—Rice's Statistical Mechanics; Fowler's Statistical Mechanics.

V. NUCLEAR PHYSICS SEMINAR.
Two hours.

W. APPLIED GEOPHYSICS. (Arts and Science 12, Engineering 320).
Mon. and Wed. at 9, first term.....Professor Keys.
Text-book:—Applied Geophysics, Eve & Keys, 2nd ed. (C.U.P.).
Reference:—Geophysical Exploration, Heiland (Prentice-Hall).

Evening Courses in (i) Radiation Theory and (ii) Communication Networks are offered by members of the physics staff in connection with Electrical Communication Engineering for the M.Eng. degree. (See p. 767 of this announcement where these courses are listed as E and F respectively of the Department of Electrical Engineering).

**Students who have received instruction in Astronomy may apply to proceed to the Dominion Observatory at Ottawa for work in summer.

§Not offered in '44-'45.

A review of the general requirements and selected topics for the preliminary examination for the degree of Ph.D. is given, in addition to the above courses, in a weekly seminar under the guidance of Professors Shaw, Keys and Watson.

A suitable selection of the above courses may be made when Physics is taken as a minor or cognate subject. A general examination on elementary physics is also given when Physics is a minor subject.

Courses for Master and first year Ph.D.—Courses K, M, Mathematics D, and one other course. Research. (Thesis required for Master's degrees).

Second Year.—Research and selected courses from the above. "Preliminary" examinations.

Third Year.—Research, thesis, oral, and one optional course.

Attendance at meetings of the Physical Society, Journal Club, and Colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students.

DEPARTMENT OF PHYSICS
(Macdonald College)

Associate Professor.....W. Rowles
Lecturer.....W. F. Oliver

The courses below may form part of the required courses for graduate students in Physics (see pages 791-795), or may be taken by students in other departments as a minor or cognate subject (see page 744).

Courses Available to Graduate Students

A. Advanced Biophysics.

2 hours, 2nd term.....Professor Rowles.
(Given in 1944-45).

B. Theory of Probability.

2 hours, 2nd term.....Dr. Oliver.
(Given in 1945-46).

DEPARTMENT OF PHYSIOLOGY

Professor.....H. E. Hoff
Associate Professor.....N. Giblin
Lecturers.....S. Dworkin, Ronald Grant
Demonstrator.....Rhoda Grant

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Applied Physiology.....
B. Lectures on Selected Advanced Topics.....
C. Advanced Laboratory.....
— Professors Hoff and Giblin and Drs. Dworkin and Grant.

D. Physiological Colloquium.

E. Lectures on Conditioned Reflexes.....Dr. Dworkin.

Requirements for the Degree of Doctor of Philosophy

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

DEPARTMENT OF PLANT PATHOLOGY
(Macdonald College)

Associate Professor.....J. G. Coulson
Lecturer.....To be appointed.

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates must have completed saitsfactory undergraduate courses in Plant Morphology, Physiology, Taxonomy, Histology and Cytology. Specialists in Plant Pathology should possess a general knowledge of the fundamental practices in Agronomy and Horticulture.

Courses for the Degrees of Master of Science and Doctor of Philosophy.

A. History of Plant Pathology. One lecture per week for one term. Extra reading required.

Text-book:—History of Phytopathology — Whetzel (Saunders Co.).

B. ADVANCED MYCOLOGY. Two lectures and two laboratory periods per week for two terms. A general course in Systematic Mycology is a prerequisite.

Text-books:—Comparative Morphology of the Fungi—Gaumann and Dodge (McGraw-Hill), Plant Disease Fungi—Stevens (Macmillan), A Text-book of Mycology—Bessey (Blakiston's Son).

C. ADVANCED PLANT PATHOLOGY.

Two lectures and two laboratory periods per week for two terms. Professor Coulson.

Text-book:—Manual of Plant Diseases—Heald (McGraw-Hill).

D. PRINCIPLES OF PLANT PATHOLOGY. Two lectures and three laboratory periods per week for two terms....Professor Coulson.

E. PLANT PHYSIOLOGY (Course A or C—Department of Botany).

F. SEMINAR.—A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc.

One period per week.....Professor Coulson and staff.

Candidates for the Master's degree and first year Ph.D. students must satisfy the requirements of courses F and two from B, C, and D.

Second year Ph.D. students are required to take course F and all other courses listed above which were not taken during the previous year.

Third year Ph.D. students devote most of their time to research and the writing of a thesis. A candidate may be held responsible for a course in a cognate subject bearing upon his research.

The Ph.D. degree in Plant Pathology is offered in close association with the Department of Botany. The preliminary oral examination is conducted jointly by both departments. The research and thesis must be in the field of Plant Pathology.

DEPARTMENT OF PSYCHOLOGY

Professor.....WILLIAM D. TAIT
Associate Professor.....CHESTER E. KELLOGG
Assistant Professor.....N. W. MORTON*

COURSES FOR MASTER'S AND PH.D. DEGREES

A. SEMINAR IN HISTORY OF PSYCHOLOGY.....Professor Kellogg.

B. THE PSYCHOLOGY OF WILLIAM JAMES.....Professor Tait.

C. CONTEMPORARY PSYCHOLOGY. A group course by the members of the Department.

*On military service.

D. SEMINAR IN PSYCHOLOGY OF LANGUAGE. . . . . Professor Kellogg.

E. SEMINAR IN ABNORMAL PSYCHOLOGY.

F. ADVANCED STATISTICAL METHODS. . . . . Professor Kellogg.
History of statistical methods; generalized frequency curves, advanced correlation analysis; sampling, analysis of variance; etc.
Prerequisite:—Course 14.

G. THEORY AND TECHNIQUE OF MENTAL TESTS.
History of mental measurements; the psychophysical methods; construction and calibration of tests; theories of intelligence and mental factors; factor analysis; problems of prediction.
Prerequisite:—Courses 10 and 14. . . . . Professor Kellogg.
(Not given in 1944-45.)

H. EXPERIMENTAL EDUCATION. . . . . Professor Tait.

I. ADVANCED PSYCHOTECHNICS. . . . . Professor Kellogg.

J. RESEARCH. Under the direction of members of the Department.

K. EXPERIMENTAL TECHNIQUE.

For other courses open to graduate students see Announcement of the Faculty of Arts and Science.

REQUIREMENTS FOR M.A. AND M.SC.

Four advanced courses approved by the Department and a thesis.

SPECIAL REQUIREMENTS FOR PH.D.*

1. Candidates are required to possess an adequate knowledge of the main principles of Physics, Chemistry and Physiology, in so far as these subjects are cognate to Psychology.

2. All candidates are required to have at least the degree of familiarity with quantitative techniques signified by honour standing in Course 16.

3. A certain amount of shopwork is required, enough to show that the candidate is capable of designing and constructing simple apparatus.

4. The preliminary examination for the Ph.D. includes the History of Philosophy, Principles of Psychology, Experimental and Physiological Psychology, Statistical Methods and Contemporary Psychology.

*For the duration of the war no candidates will be accepted for this degree.

DEPARTMENT OF SOCIOLOGY

Professor.....CARL ADDINGTON DAWSON
Assistant Professor.....FORREST LA VIOLETTE
Instructor.....EVA R. YOUNGE

The Department especially encourages research in Canadian subjects, such as: the peculiarities of Canadian culture and social organization; the development of regional factors in Canadian affairs; frontier communities; the Canadian city; immigration and race relations; population and related problems; social institutions; crime, delinquency, and other forms of social disorganizations.

COURSES FOR THE DEGREE OF MASTER OF ARTS

*A. THE COMMUNITY. Third and Fourth Years.
(Given in 1945-46).....Professor Dawson.

*B. IMMIGRATION AND POPULATION GROWTH; THE ASSIMILATION OF ALIEN GROUPS; THE RACE FACTOR IN CANADA. Third and Fourth Years.
2nd term, Tu., Th., Sat., at 9.....Professor Dawson.

*C. SOCIAL DISORGANIZATION. Third and Fourth Years.
(Given in 1945-46).....Professor La Violette.

*D. SOCIAL ORIGINS. Third and Fourth Years.
1st term, Mon., Wed., Fri., at 9.....Professor La Violette.

*E. SOCIAL MOVEMENTS. Third and Fourth Years.
2nd term., Mon., Wed., Fri., at 9.....Professor La Violette.

*F. THE FAMILY. Third and Fourth Years.
1st term, Tu., Th., Sat., at 9.....Professor Dawson.

*G. THE SOCIOLOGY OF THE CHILD. Third and Fourth Years.
(Given in 1945-46).....Professor La Violette.

*H. SOCIAL INSTITUTIONS.
(Given in 1945-46).....Professor La Violette.

I. SOCIAL ATTITUDES AND PERSONALITY. Fourth Year Honours and Graduates.
Hours to be arranged.....Professor La Violette.

J. GRADUATE SEMINAR.

Hours to be arranged.....Professor Dawson.

Written examination in each course of study and a general oral examination are required of each candidate.

*NOTE.—The starred courses are also undergraduate honours courses and are described in the catalogue of the Faculty of Arts and Science. Additional work will be required of graduate students who take such courses.

DEPARTMENT OF THEOLOGICAL STUDIES

This Department may be consulted should students wish to take a Theological course as a cognate subject.

DEPARTMENT OF ZOOLOGY

Strathcona Professor.....

Associate Professor and Chairman of the Department.....N. J. BERRILL

Associate Professor.....V. C. WYNNE-EDWARDS

Lecturer.....K. G. TERROUX

Professor of Parasitology and Director of the Institute of Parasitology at Macdonald College. Special lecturer....T. W. M. CAMERON

Research Fellow.....J. HOLTFRETER

Adequate laboratory and library facilities are available for research. The Blacker and Wood zoological libraries comprise over 40,000 volumes. Courses exclusively for graduate students are not offered, but the following advanced courses are available to graduate students when desirable. Graduate students are expected to take such courses and also cognate courses in other departments that relate to their particular line of specialization, if not previously taken. Primary emphasis for both the degree of M.Sc. and Ph.D. is placed upon research and thesis presentation.

A. COMPARATIVE AND EXPERIMENTAL EMBRYOLOGY.
Professor Berrill.

B. ADVANCED VERTEBRATE ZOOLOGY.
Professor Wynne-Edwards.

C. PHYSIOLOGICAL ZOOLOGY.
Dr. Grant and Dr. Terroux.

Graduate students are expected to attend the Biological Seminars.

LABORATORIES AND LIBRARIES

Adequate laboratories and laboratory equipment are available for undergraduate instruction and for the use of students in the Faculty of Graduate Studies and Research.

All students have free access to the Redpath Library, containing over 300,000 volumes, to the Faculty Library in the Engineering Building, containing about 2,000 titles of particular interest to students of engineering, and to the special libraries of the Departments of Chemistry, Physics, and Geological Sciences.

RESEARCH INSTITUTE OF ENDOCRINOLOGY

J. B. Collip, *Director*
Robert L. Noble, *Assistant Professor*
A. H. Neufeld*
C. Gwendoline Toby
Research Fellow.....Hector Mortimer

This Institute, established in 1941 and housed in the West Wing of the Medical Building, is devoted to research in the fundamentals of endocrinology. It is not an undergraduate teaching department, but is closely associated with the Faculty of Graduate Studies and Research and the Faculty of Medicine, and affords facilities for properly qualified graduates to work for the Ph.D. degree.

The Institute is under the direction of Professor J. B. Collip, Gilman Cheney Research Professor of Endocrinology. Dr. Robert L. Noble is the senior assistant in the physiological branches of the subject and Dr. A. H. Neufeld is the senior assistant in the biochemical branches.

A limited number of graduate students will be accepted. Entrance requirements are either the degree of Doctor of Medicine with high standing in the courses for that degree, or the M.Sc. degree in Physiology or Biochemistry or its equivalent in training in these subjects.

The minimum period in which a student with a B.Sc. or an M.D. degree can obtain a Ph.D. degree is three years. A student with an M.Sc. degree or its equivalent may qualify for the Ph.D. degree in a minimum of two years. It is not proposed to do any didactic teaching in the Institute, but candidates for a Ph.D. degree will be required to pass a comprehensive examination in the subject and to submit a thesis.

Inquiries concerning the Institute should be addressed to the Director.

*On leave of absence.

McGILL UNIVERSITY

MONTREAL



LIBRARY SCHOOL

1944-1945

McGILL UNIVERSITY
MONTREAL
LIBRARY SCHOOL
1944-1945

McGILL UNIVERSITY

LIBRARY SCHOOL

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

University Librarian and Director of the Library School.....G. R. Lomer, M.A., Ph.D., F.L.A.

Registrar.....T. H. Matthews, M.A.

Bursar.....William Bentley, C.G.A., A.C.I.S.

A complete list of the teaching staff of the University, including the Library School, is printed as a separate announcement, which may be obtained from the Registrar's Office.

LIBRARY SCHOOL

Plans for a sessional Library School at McGill University were made in the Spring of 1904 by Mr. C. H. Gould, then Librarian, in consultation with Dr. Melvil Dewey, Director of the New York State Library School at Albany. In order to lose no time, a summer course was provided for that year, thus constituting the first library school in Canada. Owing to limited funds, the winter course could not then be provided, and the summer course was repeated in 1905, 1907, 1910-11, 1913-14, 1920-24, 1926, and 1927.

In 1921 the University Librarian again proposed the establishment of a sessional course, and this was approved by Corporation in the same year and by the Governors early in 1922. The realization of these plans was made possible by the co-operation of the Carnegie Corporation with McGill University, and the first winter course under the auspices of a Canadian university opened in October, 1927. It was then accredited as a Junior Undergraduate Library School by the Board of Education for Librarianship of the American Library Association. In 1930 the Corporation of McGill University approved the raising of the entrance requirements, and the Library School became a graduate School, with the power of conferring the degree of Bachelor of Library Science, and was accredited on this new basis by the Board of Education. In addition to fundamental courses in library methods and administration, the School offers advan-

tages and opportunities in training for special libraries and for school and college libraries, as it is situated in a large city which provides examples of libraries of all types and is part of a university with a recognized high standard of scholarship.

EQUIPMENT

The Library School occupies quarters conveniently situated in the Redpath Library and consisting of a lecture room (equipped with lantern and refractoscope) a staff office, a reading room containing professional books and periodicals, and a study room with individual desks and typewriters for students.

DEGREE OF BACHELOR OF LIBRARY SCIENCE

Candidates who successfully complete all the required work of the School are entitled to receive the degree of Bachelor of Library Science (B.L.S.) at the May Convocation and to wear the regulation black Bachelor's gown and a Bachelor's hood of black lined with burnt orange silk and trimmed with white rabbit fur. Academic costume for graduation may be rented from the Registrar's office.

REQUIREMENTS FOR ADMISSION

1. Applicants for admission to the course leading to the degree of Bachelor of Library Science must have a Bachelor's degree from a recognized college or university and must present an official transcript of their college record.

2. Experience has shown that applicants over thirty-five years of age should not be encouraged to enter the School, as they usually find intensive study difficult and are at a disadvantage in applying for positions.

3. As no one with serious physical defects, personality difficulties, or ill health can readily secure a position in library service, such persons should not ask admission to the School.

4. Applicants for admission must fill in the School Application form and attach thereto a recent photograph and an advance fee of $10.00 which will be credited to the student's fee account. Should the application be rejected, this advanced payment will be refunded. No refund will be made in the case of a student who withdraws after the application has been accepted.

5. Students are advised before entering to acquire proficiency in the operation of a typewriter, since the greater part of the work done must be in typewritten form.

6. The class is limited to twenty students, each of whom receives individual attention.

PLACEMENTS

While the School does not guarantee positions to graduates and will not recommend any with less than a "B" average, it makes an effort, subject to government regulations, to help its graduates find suitable positions. Complete records are kept in the Library School files and transcripts and letters of reference are sent to prospective employers on request.

MEDICAL EXAMINATION

1. All students entering the University are required by the Provincial Board of Health to present a certificate, or other satisfactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which they shall immediately be vaccinated in a manner satisfactory to the Medical Examiner.

2. Students must also present a Certificate of Health which may be obtained from the School and which should be filled in and signed by a physician.

REGISTRATION AND ATTENDANCE

REGISTRATION:

1. Students in the Library School are required to present themselves at the office of the Library School on Friday, September 22, or Saturday, September 23, preceding the commencement of lectures, in order to furnish the information necessary for the University records.

ATTENDANCE:

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.

2. Excuses for absence on account of illness or domestic affliction are dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.

3. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to take the regular examination in that course; and those whose unexcused absences have exceeded one-fourth of the total number of lectures must repeat the work in that course for credit.

FEES AND EXPENSES

1. FEES:

a. Regular students:

Fees are due and payable at the Bursar's Office on September 25, but they will also be received before that date. After September 25 or February 1, (as the case may be) an additional fee of $2.00 is charged.

Fee for the Library Course	$170.00
By instalments:	
First instalment	87.50
Second instalment	87.50
These fees include registration, instruction, the use of the Library, health service, athletics, and graduation diploma.	
Fee for each supplemental examination	5.00

b. Partial students:

Fee for partial students, per point	15.00
Library fee for partial students taking less than two points, unless already registered at McGill	4.00
Certificate for partial students	1.00

Immediately after September 25 (or February 1, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt signed by the Bursar certifying the payment of the necessary fees.

2. Student Activities:

Students in the School pay $1.50 for the McGill Daily.

3. Caution Money:

Every student is required to deposit with the Bursar the sum of $20.00 as Caution Money to cover damage done to furniture, books, apparatus, etc. This amount, less deduction (if any), will be refunded at the end of the session, *on presentation of receipt.*

4. Textbooks and Materials:

Students should allow approximately $25.00 for textbooks, blank forms, cataloguing cards, and other library supplies needed during the session. These may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of $1.00 per month.

5. Travelling Expenses:

A week's visit, under the direction of members of the Faculty, to libraries in other cities is a required part of the Library Course, and students should allow a minimum of $85.00 for this purpose.

6. Board and Residence:

Information about approved boarding and lodging houses may be obtained on application to the Secretary of the School.

7. Clubs and Societies:

Students are encouraged to take advantage of the privileges offered to members of the Quebec Library Association, The Special Libraries Association, and the American Library Association. Women students of the School are eligible for membership in the University Women's Club, 3492 Peel Street, in the immediate neighbourhood of the School.

SCHOLARSHIP

The Ethelwyn M. Crossley Scholarship Fund, founded in honor of a former student of the school, is available, on application and after due investigation and recommendation, to deserving students who require financial assistance to take the course. The amount available annually is about $60.00.

PARTIAL STUDENTS

A limited number of qualified students who are not candidates for the degree may be admitted to individual courses as partial students. Before registration such students must satisfy the Faculty of the School of their ability to follow the courses selected, and they must fulfil all requirements of classroom work and tests prescribed for regular students of these courses. A certificate of attendance may be obtained on application to the Registrar of the University accompanied by the required fee; but no certificates shall be given for attendance at lectures unless the corresponding examinations have been passed.

COURSES FOR TEACHER-LIBRARIANS

Special evening courses for Teacher-Librarians and volunteer workers will be provided, if there is sufficient demand, giving instruction in the organization and management of school libraries, the selection and use of books for children, library work with pupils, and co-operation with the teaching staff. Further information may be obtained from the Secretary of the School.

EXTENSION COURSES

Evening extension courses in library subjects, when given, are announced in the bulletin of the Extension Department of McGill University, which may be obtained in September on application to that Department.

DESCRIPTION OF COURSES

The courses provided by the School are based upon the needs and opportunities presented by the librarian's four-fold relation to: the building in which his library is housed, the books and periodicals in his charge, the readers whom he serves, and the staff with whom he works. In teaching the various subjects of the curriculum, every effort is made to relate them to library work as a whole and to develop a dynamic rather than a mechanical point of view with regard to the present practice and the future possibilities of the profession.

Whenever possible, the past history, the practice of today and the probable future development of library activities are related, and students are encouraged to assume an attitude that is critical and forward-looking rather than one that is merely conventional and retrospective. The work of the School is grouped under the following headings for convenience of instruction: 1. Organization and administration of libraries. 2. The acquisition and care of library materials. 3. The selection and use of library materials. 4. Elective subjects. 5. Library practice.

I. ORGANIZATION AND ADMINISTRATION OF LIBRARIES

This group of courses is planned to give the future librarian a general idea of the ideals, functions, and successful running of libraries of different types. It is concerned with the place of the library in the community, the duties and opportunities of the librarian, and his relation to the trustees, staff, and readers. These courses form both framework and background for the more detailed instruction in technique and specialized services.

1. Organization and Management—Miss K. Jenkins and Dr. G. R. Lomer, 20 Lectures.

After an introductory survey of the relation of the library to other educational institutions the student becomes familiar through lectures and required reading with such topics as: the underlying principles of business and service organization; elements of library administration; the appointment, qualifications and duties of trustees; committees, meetings and minute book; the library budget, distribution of funds and accounts; statistics and reports; supplies and stock, inventory and checking stock; the qualifications of assistants, staff appointments and records, personnel management and work schedules; legislation affecting libraries in Canada; and the ethics of librarianship.

2. Library Buildings and Equipment—Dr. G. R. Lomer and Mr. J. Campbell Elder, 12 Lectures.

In this course the following subjects are discussed: basic principles and fundamentals in library planning; reading of architect's plans; the planning of small public libraries and branch libraries; college and university libraries; special libraries and private collections; furniture and equipment; heating, ventilation, and lighting; some outstanding libraries of the world.

The lectures are illustrated by lantern slides and specially prepared diagrams. Students are required to work out simple planning problems illustrating topics considered in the course.

3. College and University Libraries—Dr. Lomer, 8 Lectures.

After a brief survey of the historical development of college libraries, their present organization and problems are considered, including service to undergraduates, research students, and staff; departmental libraries; special collections and reading rooms; teaching the use of the library; the allocation of funds; dormitory libraries; inter-library loans; and such technical processes as differ from those in public and other libraries.

4. Library Extension and Adult Education—Miss V. Ross, 12 Lectures.

The history of library extension in municipal and rural areas of Canada and other countries is covered. The importance of the public library as an active agent in the solving of present and post-war problems of adult education is stressed. This includes a study of the social structure of the community; an estimation of the reading capacities, interests and needs of the people by means of library surveys; methods of improving the educational level and of supplying vocational guidance through readers' advisory work, instruction in the use of books and libraries, and visual and auditory services.

5. Library Publicity and Exhibits—Dr. Lomer and Miss V. Ross, 16 Lectures.

This course explains the principles of library publicity as applied to effective advertising; how to organize library campaigns, friends of the library groups; methods of co-operation with outside agencies. The technique of arranging library and museum exhibits and schedules is explained, and practice is afforded in arranging exhibits and making posters.

6. Circulation—Miss G. Hamlyn, 8 Lectures.

The organization of the circulation department is studied including: equipment; registration of borrowers; a comparative study of the different methods of charging books; regulations and fines; supervision of reading room and stack; information; statistics. Practice at the circulation desk of various local libraries is given.

7. History of Books and Libraries—Dr. G. R. Lomer, 48 Lectures.

This course of lectures deals with the development of the arts of record from prehistoric times and provides the student with the cultural and historical background of writing materials, books and libraries. After the early forms of picture writing, the papyri of the Egyptians and the cuneiform records of the Babylonians and Assyrians are considered, some attention is given to the production and care of manuscripts in classical times, followed by a study of the illuminated medieval manuscripts and monastic

libraries. The latter part of the course includes the manuscripts of the Far East and the invention of paper and printing in China, the development of printing in Europe, the description of incunabula, modern typography, preparation and editing of copy for the printer and proofreading, processes of illustration, and a brief summary of library development in Europe and America.

The course is illustrated throughout by lantern slides and by examples from the Library Museum, and is supplemented by required reading and by visits to museums in Montreal and other large cities.

II. ACQUISITION AND CARE OF LIBRARY MATERIALS

The purpose of these courses is to acquaint the future librarian with the principles underlying wise, economical and adequate provision of books, periodicals, pamphlets, and other non-book material, etc., for library use and the best modern technique to be applied in recording them and in making them available to the public.

1. Accessions—Dr. G. R. Lomer, 12 Lectures.

After considering the principles of library policy underlying accessions, a flexible routine for the receipt and record of gifts is discussed, followed by practice in the use of trade bibliographies, publishers' lists, and second hand catalogues, English, American and foreign, as a basis for problems in ordering. The equipment and administration of this department, including the handling of invoices, fund records, and files, are also discussed. Practice is provided in the complete routine of ordering, in which the student makes out order cards, orders and invoices, and completes the recording and filing involved.

2. Classification and Cataloguing—Miss V. Murray, 88 Lectures.

1. General. The principles and purpose of classification and cataloguing are studied with a view to their application in libraries of different types and sizes. The Dewey Decimal classification is reviewed and A.L.A. catalog rules are examined in detail, with laboratory practice throughout the course in cataloguing and classification of books and in assigning subject headings.

2. Advanced. The history and theory of classification are covered and a comparative study is made of the Dewey, Library of Congress, Cutter, Brussels, and other classification schemes in modern use.

3. Filing Cards. Methods and rules for filing catalogue cards, L.C. cards, shelf list, etc.

4. Binding—Dr. G. R. Lomer, 12 Lectures.

The topics considered in this course include the following and are illustrated by samples, lantern slides, and visits to a binder and the Library Museum. Materials, patterns, routine and records for book binding. Hand binding; the processes of sewing, forwarding, and finishing; types of sewing. Machine binding, reinforced library binding, and spiral wire binding. Binding for periodicals and serials, pamphlets and fugitive material. The care of and "first aid" repairs to books, with demonstration and practice.

III. SELECTION AND USE OF LIBRARY MATERIALS

While the students are being taught the processes involved in the care of books and are acquiring a professional background of knowledge and experience, the point of view and needs of the future reader are explained and provided for by a carefully planned study of the subject content of books and their adaptation to practical use in the libraries of various types.

During the first term Book Selection and Reference are studied separately and from a general point of view. In the second term they are combined and taught together in "special subject units" such as art, history and chemistry. All forms of material are reviewed including books, serial publications, government documents, pamphlet and other appropriate material.

1. Book Selection—Miss V. Ross, 40 Lectures.

This course deals with methods of selecting books for various types of libraries, communities and readers. Representative books of all classes are examined for their literary value, as well as their physical make-up, and various editions, translations and series are compared.

The student becomes familiar with the general and special printed aids to selection; the character and specialties of publishing houses and book agents; the problems of authorship, copyright and censorship; and important literature of the library profession, including library journals and book reviewing periodicals.

Training is given in book evaluation and annotation; written and oral book reviewing; compiling selective book lists.

2. Reference—Miss V. Ross, 84 Lectures.

The purpose of the course is to give students a practical understanding of the administration of a reference department, its clientele and the procedures involved in efficient reference and research work; and a critical knowledge of the basic types of reference materials such as encyclopedias, dictionaries, yearbooks, indexes, followed by the outstanding books in special subjects. Typical reference questions are given to students in order to develop their faculties in the use of these various books. Each student also makes an intensive study of the reference material in one selected subject.

3. Bibliography—Miss V. Ross, 8 Lectures.

Universal, national, trade and personal bibliographies, also bibliographies of bibliographies, union lists and library catalogues available in printed form are studied from the point of view of use. Subject bibliographies are considered in the reference course with the proper subjects. Class discussions are conducted for comparison of forms of entry and arrangement of lists. The bibliographical work of libraries, societies, etc., is surveyed. Compilation of a selective annotated bibliography is required.

4. Government Publications—Miss V. Ross, Miss H. Haultain, and Miss V. Murray, 16 Lectures.

The object of the course is to familiarize students with the character of British, Canadian and United States government documents in reference and research work, their source and distribution, and their care and use in libraries. Special attention is paid to the understanding and use of the various catalogues and indexes, and the organization of the different departments of government. Some attention is also paid to similar aspects of foreign documents and League of Nations publications.

5. Periodicals and Serials—Miss V. Murray, 16 Lectures.

A brief sketch of the historical development of the periodical form is given; study is made of the various types of serials published to-day, such as popular magazines, technical journals, house organs, and the publications of societies and institutions.

A systematic survey is made of the problems involved in the selection and ordering of periodicals and serials in English and foreign languages; checking and claiming; circulation, binding and storage; exchange of duplicates and completing of sets.

6. Non-book Materials—Dr. Lomer, Miss Ross, Miss Murray, 12 Lectures.

Problems arising in connection with the acquisition, care, and use of non-book materials in public and special libraries are considered.

1. Motion picture films, stills, photostats, lantern slides, and microfilm, including a brief explanation of the processes of photography.

2. Music recordings and sheet music.

3. Picture collections, architectural drawings, blueprints, maps, and material of a similar nature.

4. Pamphlets, clippings, and other fugitive material.

5. The principles of alphabetical, geographical, numerical, subject and classified filing are studied, and applied to the care of information files, office records, pamphlets, and pictures.

6. The demands made upon the librarian for indexing books and serial material and abstracting scientific and economic periodical articles and books make it necessary for the student to become familiar with the methods involved, and to have some practice in answering requests for material of this type.

IV. ELECTIVE SUBJECTS

The course as a whole is based upon the belief that successful specialization depends upon a thorough grounding in fundamental subjects and an adequate conception of the functions and processes of library work in general. The School therefore offers, in addition to its basic courses, opportunity for students to specialize in the second term in subjects that develop individual interests and prepare them for work in specialized fields.

1. Special Libraries—Miss B. Simon, 24 Lectures.

This course is designed to present the purpose and point of view of the special library, and to discuss the adaptation of general library techniques to its needs. Special attention is paid to the organization and administration of research libraries in business and industry, and the libraries of societies, foundations and similar institutions. Research methods and sources of information peculiar to each field are surveyed and discussed. Practice work in selected special libraries is provided and visits are made to outstanding types of special libraries in Montreal and other large cities.

2. School Libraries and Children's Reading—Special Lecturer, 24 Lectures.

School library work as covered in this course shows the adaptations necessary in cataloguing and classification, reference work, book selection and general administration to serve the needs of the modren school. Methods of teaching students the use of books and libraries are considered in detail. Children's literature from the historical point of view is reviewed; modern illustrators and modern authors are discussed. Students have the opportunity of using a large collection of selected children's books owned by the Library School. The lectures are supplemented by problems, story telling, practical work and visits.

V. LIBRARY PRACTICE

As all courses are planned for the development and future guidance of a trained library assistant in a modern library (public, special, college, school, or children's) it is believed that satisfactory results can be obtained only through familiarity with the use of library materials and with the daily work of the practising librarian. To obtain such necessary experience in close relation to daily instruction the following types of practical work are required:

1. Laboratory Work.

The problems and laboratory work involved in the technical courses provide the conditions necessary for the practical application of the principles and methods taught.

2. Visits to Local Libraries.

In addition to the Redpath Library and the various special and departmental libraries at McGill University, the students have the opportunity of becoming familiar with Westmount Public Library, Mechanics Institute, Civic Library, Divinity Hall Library, Canadian Industries Library, Bell Telephone Company Library, Investment Library of the Sun Life Assurance Company, Library of the Royal Bank of Canada, Montreal Art Association Library, Montreal Children's Library, Montreal High School Library, D'Arcy Magee High School Library, Montreal Catholic School Commission Library, Commercial High School Library. Visits are also made to a technical photographic laboratory, printing house, publishing house and commercial bindery.

3. Library Visits to Other Cities.

A week's visit to other large cities, including a programme of conducted visits to libraries, is planned as a required part of the course. This aims to give the student an opportunity to observe the practical application of subjects taught.

4. Practice in Local Libraries.

(a) During one term a half-day of work each week in selected libraries in Montreal or its vicinity is required and gives the student an opportunity for progressive practice and for observation of daily routines in libraries where the pace is set by experienced workers. (40 hours.)

(b) Two weeks of continuous practical work under supervision is required after the examinations in May, in order that the student may acquire an appreciation of library work as a whole under everyday conditions. (72 hours.)

McGILL UNIVERSITY

MONTREAL



SCHOOL OF PHYSICAL EDUCATION

1944-45

McGILL UNIVERSITY
MONTREAL
SCHOOL OF PHYSICAL
EDUCATION
LIBRARY

McGILL UNIVERSITY

SCHOOL OF PHYSICAL EDUCATION

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.
Docteur de l'Université (Montreal)

Director of the Department of Physical Education.....Arthur S. Lamb, B.P.E.,M.D.,C.M.

Assistant Director of Physical Education for Women.....Iveagh Munro, M.A.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

A complete list of the teaching staff of the University, including the School of Physical Education, is printed as a separate announcement, which may be obtained from the Registrar's Office.

GENERAL INFORMATION

History and Aims.

The McGill School of Physical Education is an integral part of the University. It was established in 1912 and has grown from a short summer course to a full three years' course, the first year being spent in a recognized faculty of Arts and Science, or its equivalent. There is also a course for graduates leading to a higher diploma. The aim of the school is to provide Canada with well-qualified teachers of physical education who realize the contribution this subject should make towards sane and happy living.

The Field.

There is a steady demand for trained teachers in physical education and the field is rapidly widening to include such organizations as the following: Public and Private Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlements; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc. For several years, the School has not been able to meet the demand for teachers.

COURSES OFFERED.

For the session 1944-45 the two courses will be restricted to women students.

For the Diploma:—One year in the Faculty of Arts and Science, or its equivalent, followed by a two-year course, from September to May, inclusive, is required for the Diploma of the School, and includes an analysis of the underlying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible contribution of physical education to the problems of modern civilization. Opportunity for practice teaching under staff supervision is provided.

For the Higher Diploma:—This Diploma is available only for candidates who hold a University degree. In order to complete the work in one year, the candidate must show special aptitude for the teaching profession, good neuro-muscular skill and must have taken courses during her undergraduate years which are comparable to those offered during the first year of the regular Diploma course. (See pages 835-838).

Students taking their undergraduate work at McGill University are advised to confer with the Director of the School not later than the beginning of their second year, in order to make the necessary arrangements.

Students of other universities should secure advice on the courses which they are to follow, otherwise it may be necessary to spend two years in the School in order to satisfy the requirements for the Higher Diploma. (See page 834).

ENTRANCE QUALIFICATIONS.

For the Diploma:—Senior Matriculation standing, the successful completion of the first year in the Faculty of Arts and Science, or equivalent work done elsewhere. Specially recommended candidates holding the Quebec Intermediate Teachers' Diploma will also be admitted.

For the Higher Diploma:—This Diploma is available only for specially qualified candidates who hold a University degree, and whose preliminary study and experience are considered satisfactory. (*See page 834.*)

General:—A natural aptitude for, and previous training in, physical activities, together with a sense of rhythm, are essential. A student should know how to swim, play basketball and tennis, skate and have had some instruction in gymnastics and dancing before entering. It is recommended that a student should, if possible, have earned the Bronze Medallion of the Royal Life Saving Society.

Students who desire to follow this course, should consult the head of the Department concerning detailed requirements in motor activities.

The programme of physical education places a rare opportunity in the hands of the instructor, and thus necessitates a forceful personality, guided

by high ideals and aspirations, an understanding of people and an abilit y to organize and control group activities.

FACILITIES.

The University Library and Museum are available for use by the students, as are the University Hockey Rinks, Tennis Courts, the Percival Molson Memorial Stadium and the Sir Arthur Currie Memorial Gymnasium.

A special library of selected works and the leading magazines on physical education are available for use by the students.

Exceptional facilities are afforded for practice teaching and observation in the Public Schools under the Protestant Board of School Commissioners, and in various institutions throughout the City.

COSTUME FOR WOMEN STUDENTS.

The regulation costumes of the School must be worn, and students are not permitted to wear other than the regulation garments. Measurement blanks are furnished upon registration and students are advised where the costumes can be secured. A list of articles required, with approximate cost, is sent to students on application.

TEXT-BOOKS.

Students are required to purchase text-books, as the University Library exists for supplementary reading only.

STUDENT ORGANIZATIONS.

All women students are members of the Women's Union of McGill University and all its affiliated societies.

PROFESSIONAL OPPORTUNITIES.

Students are required to attend lectures and functions relevant to their professional training from time to time. In order to start their own professional libraries, students are expected to purchase a certain number of representative books and mimeographed material recommended by the School. For this purpose and to cover the cost of accommodation at the "Ski School", a special fee, not exceeding $30.00 is deposited by each student.

ADMISSION.

For the session 1944-45 women students only will be admitted to the regular courses in the School. They will not be admitted if they are less than eighteen (18) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable, and applicants must have had some practical experience in physical work before registration.

A photograph (passport size) and two references, one from a former teacher, must be sent direct to the School. Neither reference should be from a relative.

Partial students, both men and women, may be admitted to special courses at the discretion of the Director, and the work done may count toward the Diplomas of the School.

REGULATIONS.

1. All students enter the School on an indeterminate probation. Students who are considered unsuitable for the profession are advised to discontinue.

2. A student may at the discretion of the Director be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Students are required to be present at all classes unless otherwise excused.

4. No student is permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

5. During the vacation period between the first and second years, all students are expected to do field work for a minimum of one month.

REGISTRATION AND FEES

REGISTRATION

Students in the School of Physical Education register at the Office of the School on September 11th, and the opening lecture will be given on Tuesday, September 12th. Students registering late are required to pay a late fee. Application forms should be returned not later than August 26th, 1944.

FEES.

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

DATES FOR PAYMENT.

Fees are due and payable at the Bursar's Office on Monday, September 11th, between the hours of 9 a.m. and 1 p.m. and 2.30 to 4 p.m., but they may be paid before that date. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Director of the School, a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

EXAMINATIONS AND PRIZES

Diplomas.

Diplomas are granted to successful students at the end of the course. Strathcona Certificates issued through the Strathcona Trust are granted to students on the completion of one year in the School.

The Diplomas of the School are recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying students who are British subjects for the rank of Specialist in the Public Schools.

Candidates for the Higher Diploma are urged to qualify professionally as High-school teachers of academic subjects before entering upon this course.

Prizes.

1. Gold Medal.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

2. A Shield, presented by the Class of 1925, is awarded to the student attaining the highest standing in practice teaching throughout the course and is held for one year by the student.

3. A Cup, presented by the Class of 1916, is held for one year by the student who attains the highest standing in practical work.

4. Lieutenant-Governor's Silver Medal.—This prize is awarded to the Junior Student who attains the highest general proficiency in the sessional examinations.

N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Director.

COURSES OF INSTRUCTION

The University reserves the right to amend or cancel any of the courses stated below.

For the Undergraduate Diploma

Year I.

Anatomy and Physiology.
Psychology.
Personal, Community and School Hygiene.
Principles of Physical Education I.
Practice Teaching.
Theory and Practice of Sports.
Theory and Practice of Aquatics.
Theory and Practice of Dancing.
Theory and Practice of Gymnastic Activities.

Year II.

Physiology of Exercise.
History of Physical Education.
Principles of Physical Education 2.
Methods of Physical Education.
Organization and Administration of Physical Education.
Growth, Development and Adjustment of the Individual.
Practice Teaching.
Theory and Practice of Sports.
Theory and Practice of Dancing.
Theory and Practice of Gymnastic Activities.

For the Graduate Higher Diploma

Selected requirements from subjects in the First and Second years in accordance with the needs of the students. The time required to complete the work for this Diploma is determined after the qualifications and abilities of the student are evaluated. (*See page 830.*)

(a) Assigned study of special problems.

(b) Extended reading.

(c) Seminars.

(d) Essay.

DESCRIPTION OF COURSES

YEAR I

Anatomy and Physiology

The emphasis in this course is upon the body as a living mechanism in which the function and structure are inseparably related and in which the activities of all parts are intimately co-ordinated. Texts: Anatomy and Physiology, Williams (Saunders Co.).

3 hours. Laboratory periods by arrangement..... Dr. Lamb.

Psychology

A consideration of the nature and development of the child from infancy to adolescence—the dominant interests—the learning process—the emotional responses with the ultimate objective of gaining a better understanding of the characteristics of personality of the individual.

2 hours.....Mr. Orlick.

Personal, Community and School Hygiene

An elementary study of the more common pathogenic organisms and communicable disease; their relation to health; precautions against; and means of combating pathogenic organisms.

Health organizations and the means for the maintenance of health; the effect of various occupations on health; the laws of heathful living and the responsibility of the individual.

Principles and methods of health teaching are included and a study made of the health education programme. It involves a study of ways and means of teaching the health material to children of different ages, so that it may lead to better habits of living and become effective in life.

2 hours.....Professor Macdonald; Miss Munro.

Principles of Physical Education I

An analysis of the aims of physical education and their relationship to those of general education. A study of age characteristics of elementary school children and presentation of appropriate games and rhythmic activities. Texts: Rhythms and Dances for Elementary Schools, La-Salle; Physical Education for Elementary Schools, Neilson and Van Hagen (Barnes).

3 hours, first term.....Miss Munro.

Practice Teaching

1. Assisting in a swimming class at Montreal High School.

1 hour, beginning the middle of first term.....Mrs. Tyrrell.

2. Assisting and teaching in various institutions in Montreal such as social service centres, hospitals, Y.W.C.A.'s and schools.

1 hour, second term.....Under supervision of staff.

Theory and Practice of Sports

In cases where the same sport is taken both years, the first year students concentrate on gaining skill of performance, in learning techniques and fundamentals of the game and the rules. In the case of less complicated sports which are given just one year, besides the above, teaching procedure, officiating and organization of material are also included in the course.

During the first three weeks of the year, the programme is devoted entirely to outdoor work. The activities taken are:—

Field Hockey	Tennis
Soccer	Soft ball
Track and Field.	

During the rest of the year, the following activities are taken:—

Basketball	2 hours, one term
Badminton	1 " " "
Volleyball (offered alternate years)	1 " " "
Winter Sports	1 hour

Following the mid-term examination, a "Ski School" of one week's duration is held in the Laurentian Mountains.

Miss Munro, Mrs. Tyrrell, Miss Wagner,
Mr. Van Wagner, and others.

Theory and Practice of Aquatics

Teaching progressions for strokes and diving; life saving; elementary canoeing and problems connected with water front activities and water safety precautions. Discussion of Canadian Amateur Swimming Association standards, meets, tests, charts, games and water pageants.

3 hours.....Mrs. Tyrrell.

Theory and Practice of Dancing

1. Backgrounds of the dance.

A survey of the history of the dance; consideration of modern dance as an art form; general methods of organizing and teaching various types of rhythmic activities for different age levels; analysis of movement and of rhythm and the problems involved; an understanding of the fundamentals of music and the use of music in physical education.

2 hours, first term. 1 hour, second term.....Miss Wagner.

2. Elementary Modern Dance.

Dance techniques for developing body control and for learning the possibilities of movement; rhythm training; experimentation with a variety of dance forms and the creation of the student's own dance compositions; practical experience with dance as an art form.

2 hours.....Miss Wagner.

3. Elementary Folk Dancing.

Study of simple traditional dance forms grouped according to countries so that the costumes, characteristics of the country and people, customs and other background material can be considered.

2 hours, second term.....Miss Wagner.

Theory and Practice of Gymnastic Activities

1. Theory of Gymnastics.

Study of terminology; of various types of gymnastics with and without music; of exercises suitable for various ages and types of classes; organization of lessons and courses; practice in presenting exercises and teaching lessons. Fundamental Gymnastics, Neils Bukh (Dutton).

3 hours, second term.....Miss Wagner.

2. Elementary Fundamental and Rhythmical Gymnastics.

Fundamental gymnastics. Stressing basic body conditioning, developing strength, flexibility and co-ordination. Done without music for training ability in setting and maintaining rhythm without outside help and because of uneven rhythm and sudden changes of tempo.

Rhythmical gymnastics. Also a development of general bodily skill as in fundamental gymnastics, but stressing more the response to music and exercises on the move.

2 hours.....Miss Wagner.

3. Tumbling and Stunts.

Use, organization and teaching procedures.

1 hour.....Mr. Finlay.

4. Elementary apparatus.

Development of fundamental skills on gymnasium apparatus from the standpoint of self-testing and methods of teaching.

1 hour.....Mr. Finlay.

YEAR II

Physiology of Exercise

A study by lectures and demonstrations of the effects of exercise on the neuro-muscular system, metabolism, respiration, circulation, etc. The effects of various types of exercise are studied in relation to the working power of the human machine and consideration given to the underlying principles in the selection of the best methods of exercise to employ.

Texts: Physiology of Exercise, Gould & Dye (Barnes), Bainbridge (Longmans Green), Schmidt & Sputh (Davis), McCurdy & McKenzie (Lee & Febiger), Schneider (Saunders).

2 hours, second term.....Dr. Lamb.

History of Physical Education

Study of the history of Physical Education from primitive times until the present day, including Political History and the History of Education in so far as they have influenced Physical Education. Discussion of the growth and scope of modern societies that aim to promote public welfare through health and recreation.

Extensive reading is required.

Text Book: Rice, Emmet A., "A Brief History of Physical Education."

2 hours.....Mrs. Tyrrell.

Principles of Physical Education 2

A continuation of Course 1. A study of programme construction in relation to the secondary school and adult groups; the extra curricular programme and its guidance; standards for judging the teaching and measuring results; the responsibilities, policies and relationships of the teacher of physical education.

2 hours, second term.....Miss Munro.

Methods of Physical Education

The material for this course includes a study of the current methods in general education and their definite application to the teaching of physical education. Observation of actual teaching situations followed by discussions.

2 hours, first term; 1 hour, second term.....Miss Munro.

Organization and Administration

A study of the various problems in organization and administration; from arranging a simple schedule of competitive events to the more complex problems of supervising and administering a Department.

2 hours.....Dr. Lamb, Mr. Van Wagner.

Growth, Development and Adjustment of the Individual

A study of human nature and behaviour through an integrated consideration of mental, emotional, social and physical aspects of growth; personality maladjustments; educational and social factors involved in promotion of healthy development.

2 hours.....Dr. Silverman.

Practice Teaching

1. Teaching in various institutions in Montreal.

1 hour.....Under supervision of Staff.

2. Each student is assigned to a school under the Montreal Protestant Board, and spends the full day with the regular physical education teacher, Gradually she takes on more of the classes, so that by the last week she is carrying a full schedule.

3 weeks in May, following the examination period.

Under supervision of Staff and Mr. J. G. Lang

Theory and Practice of Sports

During the first three weeks, the same activities are taken as in the first year, but the stress is more on teaching, refereeing, testing, analysis, organization and selection of material in each sport. In addition, Archery is given.

During the rest of the first term, basketball is continued and special attention is given to a knowledge and understanding of rules; lead-up games; analysis of skills; tests; strategy and duties of officials.

Following the mid-term examinations, a "Ski School" of one week's duration is held in the Laurentian Mountains.

2 hours, first term.....Miss Munro, Mrs. Tyrrell, Miss Wagner, Mr. Van Wagner and others.

Theory and Practice of Dancing

1. Advanced Modern Dance—a continuation of the elementary course, going on to more difficult movements and stressing dance composition to a greater extent.

2 hours ..... Miss Wagner.

2. Advanced Folk Dancing—covering more advanced material than the elementary course.

2 hours, first term ..... Miss Wagner.

3. Clog and Tap Dancing.—Practice in basic clog and tap dancing steps with an understanding of their analysis and timing to music, learning of dances and routines from various sources and the creation of original dances.

2 hours, second term ..... Miss Wagner.

4. Social Dancing—Stress on methods and devices for teaching basic steps and leading into improvisation of students' own sequence of steps; organization of large groups of beginners for effective instruction, rhythm training and recognition of usual popular dance time signatures.

Hours as arranged during second term ..... Miss Wagner.

Theory and Practice of Gymnastic Activities

1. Remedial Gymnastics.

Consideration of normal physical development; principles for determining deviation from normal body structure and methods for correcting abnormalities; examination of children and practice in therapeutic measures and massage.

2 hours ..... Mrs. McKean.

2. Advanced Fundamental and Rhythmical Gymnastics.

A continuation of the work of the first year.

2 hours ..... Miss Wagner.

3. Advanced Apparatus.

Development of personal techniques and skill in presenting gymnastic activities suitable for elementary and secondary school programmes.

1 hour ..... Mr. Finlay.

McGILL UNIVERSITY

MONTREAL



SCHOOL FOR GRADUATE NURSES

1944-45

McGILL UNIVERSITY

SCHOOL FOR GRADUATE NURSES

ADMINISTRATIVE OFFICERS

Principal.....F. CYRIL JAMES, PH.D., D.C.L., LL.D.

Dean of the Faculty of Medicine.....J. R. FRASER, M.D., C.M., F.R.C.S. (C), F.A.C.S., F.R.C.O.G.

Director of the School for Graduate Nurses MARION LINDEBURGH, O. B. E., R.N., M.A.

Assistant Director of the School for Graduate Nurses.....MARY S. MATHEWSON, R.N., B.S.

Bursar.....WILLIAM BENTLEY, C.G.A.

Registrar.....T. H. MATTHEWS, M.A.

ADVISORY COMMITTEE

DEAN FRASER (Chairman)

DR. R. ST. J. MACDONALD — MISS M. L. MOAG

MISS M. K. HOLT — MISS LINDEBURGH

A complete list of the teaching staff of the University, including the School for Graduate Nurses, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL STATEMENT

The graduate nurse today has greater opportunities for personal satisfaction and professional service than ever before. Since the outbreak of war, the shortage of qualified nurses to fill positions of responsibility in civilian hospitals and in the public health nursing field has become acute, owing to the steady withdrawal of personnel for military service in Canada and overseas. It is essential that a sufficient number of nurses should be prepared to fill these vacancies. This is imperative at a time when national defence demands that the highest possible level of nursing service be maintained.

In recognition of the seriousness of the present situation, as well as the implications for the future, the Canadian Nurses Association and other responsible groups are offering bursaries and loans to enable promising nurses to undertake a year of special study in one of the Canadian Universities which offer such courses.

This School was founded in 1920 to meet the needs of graduate nurses for special preparation in their chosen field. The programme has developed to keep pace with changing requirements. In addition to full time courses, facilities are available on a partial basis for local students who are interested in improving the quality of their service.

The resources of the School are at the disposal of qualified nurses who wish to prepare themselves for the responsibilities which they will inevitably be called upon to assume in the present crisis or in the reconstruction period to follow.

The following courses are offered:—

I. Teaching and Supervision in Schools of Nursing.

II. Public Health Nursing.

Advanced courses:—

III. Administration in Schools of Nursing.

IV. Administration and Supervision in Public Health Nursing.

Applicants for the advanced courses must present evidence of having held positions for at least two years in which they have demonstrated teaching and administrative ability as well as fitness for leadership. Course I or II, or the equivalent, followed by satisfactory experience, would provide the most desirable background for Course III or IV.

ENTRANCE REQUIREMENTS

1. All applicants must present evidence of the satisfactory completion of the undergraduate course in an approved school of nursing. Applicants must also be registered in the province or state from which they come.

For the advanced courses evidence of satisfactory professional experience must be presented.

2. A certificate of medical examination must be submitted as required by the University, and of successful vaccination within seven years or of insusceptibility to vaccine within five years, in accordance with provincial health regulations. In addition, students are required to report before November first for the health examination conducted by the University.

3. The School for Graduate Nurses recognizes any examination that is accepted by the Matriculation Board of McGill University as an alternative to the University's own Junior Matriculation Examination. The number of subjects or papers to be taken in any such examination is the number normally required to obtain Junior Matriculation standing in the Faculty of Arts and Science (e.g., ten papers in Quebec; eleven in British Columbia), but a wider choice of subjects is permitted.

The compulsory subjects are English, History, Algebra or Advanced Arithmetic, and Chemistry or Biology. Chemistry and Biology should *both* be taken if possible. The other subjects of the examination are entirely optional.

The Faculty of Arts and Science will admit a graduate of the School to the First Year of any of its courses with this Matriculation if the student is specially recommended by the School for Graduate Nurses.

CANADIAN CERTIFICATES RECOGNIZED

The Junior Matriculation Certificate of McGill University or any of the following:

PROVINCE OF QUEBEC.
The High School Leaving Certificate.
The Catholic High School Leaving Certificate.

PROVINCE OF ONTARIO.
Middle School Certificate.

PROVINCE OF NEW BRUNSWICK.
Junior Matriculation or High School Leaving Certificate.

PROVINCE OF NOVA SCOTIA.
Grade XI Certificate.

PROVINCE OF PRINCE EDWARD ISLAND.
Second Year Certificate of Prince of Wales College.

PROVINCE OF BRITISH COLUMBIA.
Junior Matriculation.

PROVINCE OF MANITOBA.
Grade XI Certificate.

PROVINCES OF ALBERTA AND SASKATCHEWAN.
Grade XI Certificate.

APPLICATION FOR ADMISSION

All applications must be made on forms which may be obtained from the School for Graduate Nurses, McGill University.

REGISTRATION

Students in Public Health Nursing will register on September 5th for field work.

Students in Teaching and Supervision will register on September 15th for field work.

Students in Administration will register on September 15th for field work.

University registration dates: September 29th and September 30th. The opening lecture will be given on October 2nd.

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University. Preference will be given to applicants with experience in the nursing field.

1. ALEXANDRA HOSPITAL.

The Board of Governors offers a scholarship of $100.00 in addition to maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. ASSOCIATION OF REGISTERED NURSES OF THE PROVINCE OF QUEBEC.

A scholarship of $350.00 is offered to a member of the Association of Registered Nurses of the Province of Quebec, whose qualifications are acceptable to McGill University for any course selected in the School for Graduate Nurses.

3. CHILDREN'S MEMORIAL HOSPITAL SCHOOL OF NURSING.

The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. MONTREAL GENERAL HOSPITAL SCHOOL OF NURSING.

1. The Mildred Hope Forbes Memorial Scholarship, established by Mrs. Norman Wilson in Memory of the late Mildred Hope Forbes, is offered to a graduate of the Montreal General Hospital School of Nursing.

2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship. Only members of the Alumnae Association are eligible.

5. ROYAL VICTORIA HOSPITAL SCHOOL OF NURSING.

1. The Board of Management offers an annual scholarship for a year's study at the School for Graduate Nurses.

2. An annual scholarship is awarded from the Dr. Garrow Fund for post-graduate study.

3. The Emma Thomas Scholarship is offered for post-graduate study.

4. The Mabel F. Hersey Scholarship is given annually by the Board of Governors for a year of post graduate study at the School for Graduate Nurses, McGill University.

5. SHRINERS' HOSPITAL FOR CRIPPLED CHILDREN.

A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses is offered by the Board of Governors of the Montreal Unit to registered graduate nurses who have affiliated as student nurses at the Shriners' Hospital.

6. VICTORIAN ORDER OF NURSES FOR CANADA.

The Victorian Order of Nurses for Canada offers a limited number of scholarships of $400.00 each to nurses taking a year's post-graduate course in Public Health Nursing. Candidates who have been on the staff of the Order for two months or more will be given preference.

7. THE HOMOEOPATHIC HOSPITAL OF MONTREAL.

The Alumnae Association of the Homoeopathic Hospital School for Nurses offers a scholarship of $200.00 for a year's study at the School for Graduate Nurses. Only members of the Alumnae Association are eligible.

W. K. KELLOGG FOUNDATION LOAN FUND

Through the generosity of the Foundation, this fund has been established to assist Graduate Nurses who cannot otherwise meet the expenses of a year of study at the school. For further particulars applicants should consult the Director of the School for Graduate Nurses.

EXAMINATIONS

The pass mark in all examinations, in keeping with University regulations, is fifty per cent.

Results of examinations are recorded according to class, as follows: Class I, 80% to 100%; Class II, 65% to 79%; Class III, 50% to 64%.

FEES AND DEPOSITS

TUITION FEES*

1. For the regular certificate courses, per session..... $165.00
   By instalments: First instalment..... 85.00
   Second instalment..... 85.00

2. Registered students not proceeding to a Certificate are classed as Partial Students and pay $14.00 per hour of instruction per week for a full course, but the maximum fee shall not exceed that charged for a regular certificate course.

   Partial Students taking courses in the Faculty of Arts and Science will pay the fees as outlined in the Announcement of that Faculty.

*Includes Registration, Graduation, Health, Library and Campus privileges.

3. Fees for Laboratory Courses are $7.00 per hour of instruction per week for the academic year. This fee will cover laboratory materials, reagents and use of instruments and apparatus but it will not cover losses through waste, neglect or breakage. The charges under this head will be deducted from the student's caution money.

4. The following fees are payable by students taking field work:

Public Health Nursing	$25.00
(Students who are exempt from the preliminary field work pay $15.00).	
Teaching and Supervision	10.00
Administration	10.00

5. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1 p.m., and 2.30 to 4.00 p.m. from Wednesday, October 4th, till Friday, October 6th, or if desired they may be remitted by mail before the above date. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

6. Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Director of the School a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

NOTE: Special fees are given in the General Information Pamphlet included in this Announcement.

BOARD AND RESIDENCE

Every assistance is given to students in finding suitable living accommodation. A list of approved lodgings is kept on file in the School, and approval of the Director must be secured before making final arrangements for board and room.

EXPENSES

Approximate Cost of the Course:—Students who register in those courses requiring field work will take this extra time into consideration in estimating their expenses. Estimate of average expenses for the academic year (30-32 weeks) is as follows:

University fees	$200.00		
Books and laboratory fees	20.00	to	$ 40.00
*Board and lodging	400.00	"	500.00
Incidentals	30.00	"	40.00
Average total	650.00	"	750.00

*Additional expense for public health nursing students is approximately $100.00.

COURSES

I. TEACHING AND SUPERVISION IN SCHOOLS OF NURSING

This course prepares qualified nurses for positions as instructors and supervisors in schools of nursing. A period of satisfactory experience in nursing following completion of the undergraduate course is considered a prerequisite. The required field work will be adjusted to meet the individual needs.

Required Courses

Faculty of Arts and Science

Sociology 1
Education 1, 1st term
Chemistry 16

Nursing Education

A. General

Nursing Legislation
Public Health and Nursing
History of Nursing
Mental Health
*Bacteriology
*Physiology

B. Teaching and Supervision

Nursing Education
Principles and Methods of Teaching
Observation, Practice Teaching and Field Work
Ward Administration, Teaching and Supervision.

Substitute or additional courses may be permitted at the discretion of the Director.

II. PUBLIC HEALTH NURSING

This course prepares qualified nurses for staff positions in public health nursing organizations.

The required field work will be adjusted to meet individual needs.

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*Students have a choice of Physiology or Bacteriology.

Required Courses

Faculty of Arts and Science

Sociology 1
Education 1, 1st term

Nursing Education

A. General

Bacteriology
Mental Health
Public Health and Preventive Medicine
Nutrition
Social Case Work
Nursing Legislation

B. Public Health Nursing

Public Health Nursing
*Public Health Nursing—Fieldwork
Teaching in Public Health Nursing.

Substitute or additional courses may be permitted at the discretion of the Director.

*Field Work in Public Health Nursing

Experience under supervision, or field work, is an integral part of the course in Public Health Nursing. The basic field work requirement is twelve weeks. The schedule for students without previous experience is as follows:—

4 Weeks preliminary field work in September.
6 Weeks field work in May and June
2 Weeks or equivalent field work during the Session.

This requirement is adjusted to meet individual needs and students will not be expected to repeat experience which has been gained under adequate supervision.

Uniforms

A special one-piece wash uniform is required for field work, with white collar, cuffs and black tie. Information regarding the ordering of uniforms will be sent to accepted students. Any plain dark hat and coat may be worn.

III. ADMINISTRATION IN SCHOOLS OF NURSING

This course prepares qualified nurses for positions as principals of Schools of Nursing and directors of Nursing Service in hospitals. Applicants for the course must show evidence of a satisfactory record of two or more years in an executive position. The course "Teaching and Supervision in Schools of Nursing" or the equivalent, followed by satisfactory experience would provide the most desirable background for this advanced course. The required field work will be adjusted to meet individual needs.

Required Courses

Faculty of Arts and Science

Sociology 2
Economics 1

Nursing Education

A. General

To be selected on the basis of individual needs.

B. Administration

Administration in Schools of Nursing
Field work in Administration in Hospitals and Schools of Nursing
Hospital Administration.

Substitute or additional courses may be permitted at the discretion of the Director.

IV. ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

This course prepares qualified nurses for positions as supervisors and directors in public health nursing organizations.

The course "Public Health Nursing" or its equivalent, and at least two years of satisfactory experience in the field are prerequisite.

Required Courses

Faculty of Arts and Science

Sociology 2 or Sociology 7
Economics 1.

NURSING EDUCATION

A. General

To be selected on the basis of individual needs.

B. Administration and Supervision in Public Health Nursing

Administration in Public Health

Administration and Supervision in Public Health Nursing

Problems in Administration and Supervision in Public Health Nursing

Field work in Administration and Supervision in Public Health Nursing.

Substitute or additional courses may be permitted at the discretion of the Director.

COURSES IN THE SCHOOL FOR GRADUATE NURSES

ADMINISTRATION IN SCHOOLS OF NURSING

Organization and administration of the School of Nursing; its function and control; educational policy and programme. Special problems relating to staff and students.

Two hours (second term).....Miss Marion Lindeburgh and special lecturers.

ADMINISTRATION IN SCHOOLS OF NURSING—FIELD WORK

Field trips to schools of nursing, hospitals and health organizations in the community, weekly conferences; reports of observation. During the month of September provision is made for preliminary observation in affiliated hospitals. At the end of the term a short period of special field work is arranged to meet individual needs.

PUBLIC HEALTH NURSING

Public health nursing today; evolution, objectives, functions and methods with emphasis on family health, records and statistics; application of principles and methods to development of community health service including adequate maternal, infant, pre-school, school and industrial nursing programmes; principles of organization and administration. This course is closely linked with observation and practice in the field.

Three hours.....Miss Mary S. Mathewson and special lecturers.

PUBLIC HEALTH NURSING—FIELD WORK.

a. Field trips to health and social agencies in the community.

b. One half day each week in the field during second term.

c. Ten weeks of supervised practice in public health nursing. This requirement is reduced for those who have had previous experience under adequate supervision.

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING.

General principles of administration and supervision; executive and educational functions; application to the field of public health nursing; organization, financial support, personnel selection and management; staff and student education; relationships; administrative and supervisory programmes.

Three hours.....Miss Mary S. Mathewson and special lecturers.

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING—FIELD WORK

Field work with health and social agencies. Observation of methods and content of supervision followed by conference and discussion.

Practice in administration and supervision in the field.

PROBLEMS IN ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING.

Discussion of problems of organization and supervision; publicity; staff education; field studies, reports and conferences.

Two hours.....Miss Mary S. Mathewson and special lecturers.

ADMINISTRATION IN PUBLIC HEALTH.

General principles underlying public health organization, legislation and administration; services of official and voluntary agencies; programme planning, vital statistics and present day epidemiological practice.

The teaching is closely correlated with observations in the field.

Two hours, first term.

Dr. R. St. J. Macdonald, Dr. F. G. Pedley, and other lecturers.

NURSING EDUCATION.

Present trends and developments in nursing education, surveys and reports; a brief historical review of schools of nursing in their relation to hospitals; practices in professional education, application to nursing education; school of nursing curricula.

Two hours, first term.....Miss Marion Lindeburgh.

PRINCIPLES AND METHODS OF TEACHING.

Psychological principles underlying learning and teaching; effective study habits; selection and organization of subject matter. Principles of curriculum organization; classification of subjects in the nursing curriculum; application of principles and modern methods of teaching; integration of health and community aspects throughout basic course; tests and measurements.

Two hours..... Miss Marion Lindeburgh and Miss Kathleen Stanton.

OBSERVATION, PRACTICE TEACHING AND FIELD WORK.

First term—Observation in affiliated schools of nursing; reports of observation, conferences.

Second term—Observation and practice in teaching in affiliated schools of nursing; weekly conferences.

Field work—During the month of September provision is made for preliminary observation in local hospitals. After examinations in May a short period of special field work is arranged to meet individual needs.

WARD ADMINISTRATION, TEACHING AND SUPERVISION.

Ward management; problems of nursing service and nursing education; personnel; staffing; duties, responsibilities and relationship of head nurse and clinical supervisor; the ward teaching programme; methods of assignment; principles and application of educational supervision; special methods of clinical teaching; evaluating students and their work.

Two hours, second term..... Miss Marion Lindeburgh and special lecturers.

HISTORY OF NURSING.

An historical review; as a means of securing an appreciation of nursing traditions and ideals; as a means of understanding and interpreting trends and developments in modern nursing; consideration of source materials, and effective methods of teaching.

One hour, second term..... Miss Mary S. Mathewson.

NURSING LEGISLATION.

A general survey of legislative developments in nursing in various countries; particular emphasis upon registration, and measures for legislative control in Canada.

One hour, second term..... Miss E. Frances Upton.

HOSPITAL ADMINISTRATION.

Lectures and observations—This course deals with the hospital and its relation to the community; the board of trustees, the medical board and the general staff; problems of planning, organization, equipment and administration of the various departments; the purchase and handling of supplies and other problems of hospital administration.

Two hours, first term.....Dr. J. C. Mackenzie and other lecturers.

PUBLIC HEALTH AND PREVENTIVE MEDICINE.

A brief history of the development and present status of public health administration; the control and prevention of communicable diseases; maternal and child hygiene; sanitation, housing, water, food and milk supply; industrial hygiene, health education.

Two hours.....Dr. R. St. J. Macdonald, Dr. F. G. Pedley and special lecturers.

NUTRITION.

Elements of nutrition; nutritive properties of foods. Practical application of these principles; budgeting.

Two hours, one term.....Dr. D. L. Thomson and special lecturers.

MENTAL HEALTH.

A study of the nature of human behaviour, the basic principles of mental health and the intellectual, emotional, physical and social factors involved in personality maladjustments and mental disorders.

Two hours.....Dr. Baruch Silverman.

TEACHING IN PUBLIC HEALTH NURSING.

A. Psychological principles underlying learning and teaching; selection and organization of subject matter.

General principles and methods underlying health teaching programmes as applied to home, school and community situations.

B. Observation and Practice in teaching; conferences.

Two hours.....Miss Marion Lindeburgh, Miss Mary S. Mathewson

BACTERIOLOGY.

A combined lecture and laboratory course.

Four hours, first term.....Dr. Donald Fleming.

SOCIAL WORK.

A study of the current practice of representative social agencies and their relation to the public health nursing programme. A discussion course supplemented by family studies, observations and demonstrations.

Two hours, first term.....Miss Dorothy King and special lecturers.

PUBLIC HEALTH AND NURSING.

Health problems of today; evolution of the modern public health movement; objectives and programmes of official and voluntary agencies; role of nurse in promotion of public health objectives; methods in public health nursing; study of community health needs and resources; visits to selected health agencies and observation with the public health nurses in homes.

Three hours, first term.....Dr. R. St. J. Macdonald, Miss Mary S. Mathewson and special lecturers.

PHYSIOLOGY.

A short course linking internal anatomy with physiological functions of organs and the activities of the body considered as an integrated system. Demonstrations of mammalian material and methods of dissection are included.

Two hours, second term.....Dr. Kathleen G. Terroux.

COURSES IN THE FACULTY OF ARTS AND SCIENCE

SOCIOLOGY 1 (Introductory Course).

Three hours.....Professor C. A. Dawson.

SOCIOLOGY 2 (The Community).

Three hours.....Professor C. A. Dawson.

SOCIOLOGY 7 (The Family).

Three hours.....Professor C. A. Dawson.

CHEMISTRY 16 (Chemistry of Daily Life).

Two hours.....Professor W. H. Hatcher.

ECONOMICS 1 (Introductory Course).

Three hours.....*Professor John Culliton.

EDUCATION 1 (General Principles).

Three hours, 1st term.....Professors John Hughes and A. B. Currie.

McGILL UNIVERSITY

MONTREAL



SCHOOL FOR GRADUATE NURSES

DEGREE COURSE

1944 - 1945

McGILL UNIVERSITY

SCHOOL FOR GRADUATE NURSES

ADMINISTRATIVE OFFICERS

Principal.....F. CYRIL JAMES, PH.D., D.C.L., LL.D.
Dean of the Faculty of Medicine.....J. R. FRASER, M.D., C.M., F.R.C.S. (C), F.A.C.S., F.R.C.O.G.
Director of the School for Graduate Nurses.MARION LINDEBURGH, O.B.E., R.N., M.A.
Assistant Director of the School for Graduate Nurses.....MARY S. MATHEWSON, R.N., B.S.
Bursar.....WILLIAM BENTLEY, C.G.A.
Registrar.....T. H. MATTHEWS, M.A.

ADVISORY COMMITTEE

DEAN FRASER (Chairman)

DR. R. ST. J. MACDONALD — MISS M. L. MOAG
MISS M. K. HOLT — MISS LINDEBURGH

A complete list of the teaching staff of the University, including the School for Graduate Nurses, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL STATEMENT

During the past ten years there has been a growing demand for nurses with special preparation for leadership in all fields of nursing. Since the outbreak of war the shortage of qualified administrators, teachers, supervisors and public health nurses has become acute.

Leaders are needed to maintain Canadian standards of nursing, and to be ready to deal with problems of the reconstruction period in this country and abroad.

McGill University offers a new two-year course for graduate nurses leading to the degree Bachelor of Nursing for the preparation of nurses to meet these demands.

In the first year, students take a general course of selected subjects in the Faculty of Arts and Science, the Faculty of Medicine, and in the professional field. The second year programme includes nursing and allied subjects, closely correlated with observation and practice, and provides opportunity for specialization in the following fields:—

Teaching and Supervision in Schools of Nursing.

Public Health Nursing.

Administration in Schools of Nursing.

Administration in Public Health Nursing.

ENTRANCE REQUIREMENTS

1. Senior Matriculation.

Candidates must have passed in the required papers of the Senior Matriculation Examinations or their recognized equivalents. The required subjects are English, Chemistry, and any three of the following: History, Biology, French, German, Spanish, Latin, Mathematics, Physics.

2. Nursing Preparation and Experience.

All applicants must present evidence of the completion of the undergraduate course in an approved school of nursing, with a creditable record in theory and practice.

For the course in Teaching and Supervision in Schools of Nursing, and the course in Public Health Nursing, at least one year of satisfactory experience after graduation is a prerequisite.

For the course in Administration in Schools of Nursing, and the course in Administration in Public Health Nursing, at least three years of satisfactory experience in which executive ability has been demonstrated, is required.

All applicants must be registered in the province from which they come.

3. Health.

A certificate of medical examination must be submitted as required by the University, and of successful vaccination within seven years or of insusceptibility to vaccine within five years, in accordance with provincial health regulations. In addition, students are required to report before November first for the health examination conducted by the University.

APPLICATION FOR ADMISSION

All applications must be made on forms which may be obtained from the School for Graduate Nurses, McGill University.

REGISTRATION

Students in the first year of the degree course will register on September 29th, and September 30th. The opening lecture will be given on October 2nd.

FEES

Students pay annually three fees: (1) inclusive University fee; (2) a Student's Activity fee; (3) a caution money deposit. There are no other regular fees, and the only extras are for late registration, for graduation in absentia, etc.

University fee		$230.00
If by instalments:		
First instalment	$117.50	
Second instalment	117.50	
Student's Activity fee		8.00
Caution money deposit		10.00

For information regarding scholarships, board and residence, see School for Graduate Nurses Announcement and General Information Pamphlet.

COURSES

Outlined below are the required courses for the two-year programme, including the nursing subjects to meet the requirements in the four optional fields of specialization.

TEACHING IN SCHOOLS OF NURSING

GENERAL

Education.
Psychology.
Sociology.
Bacteriology.
Physiology.
Essentials of Medicine.
Nutrition.
Chemistry.

NURSING.

Trends and Developments in Nursing.
Teaching in Schools of Nursing.
Nursing Supervision in Hospitals.
Problems in Nursing Supervision in Hospitals.

PUBLIC HEALTH NURSING

GENERAL.

Education.
Psychology.
Sociology.
Bacteriology.
Physiology.
Essentials of Medicine.
Nutrition.
Public Health.

NURSING.

Trends and Developments in Nursing.
Social Adjustments of the Family.
Public Health Nursing.
Teaching in Public Health Nursing.

ADMINISTRATION IN SCHOOLS OF NURSING

GENERAL.

Education.
Psychology.
Sociology.
Economics.
Personnel Management.
Hospital Administration.

NURSING.

Trends and Developments in Nursing.
Administration in Schools of Nursing.
Problems in Schools of Nursing Administration.

ADMINISTRATION IN PUBLIC HEALTH NURSING

GENERAL.

Education.
Psychology.
Sociology.
Economics.
Personnel Management.
Administration in Public Health.

6

NURSING.

Trends and Developments in Nursing.
Administration and Supervision in Public Health Nursing.
Problems in Supervision in Public Health Nursing.

DESCRIPTION OF COURSES

EDUCATION.

General principles of education; psychological principles underlying theory and practice.

PSYCHOLOGY.

Introduction to the scientific study and interpretation of human behaviour.

SOCIOLOGY.

Introduction to the study of society; evolution of social institutions; patterns of social and cultural change; forces determining social change.

BACTERIOLOGY.

Combined lecture and laboratory course in the fundamental principles of bacteriology as applied to individual and community hygiene; prevention and control of disease.

PHYSIOLOGY.

Study of the structure and function of the human body, with emphasis on the relation of this knowledge to nursing care and health teaching.

ESSENTIALS OF MEDICINE.

Fundamentals of medical science in general and special fields, including recent knowledge as to cause, treatment, and prevention of disease; promotion of individual and public health.

NUTRITION.

Principles of normal nutrition; food needs of individuals and families; dietary planning and budgeting.

CHEMISTRY.

Application of the principles of inorganic and organic chemistry to physiology, pharmacology, bacteriology and nursing.

ECONOMICS I.

Elements of political economy. (See Announcement, Faculty of Arts and Science).

PERSONNEL MANAGEMENT.

Principles of organization; scientific management; personnel policies; personnel selection, training, and management.

PUBLIC HEALTH.

Development and present status of public health services in Canada and elsewhere; health legislation; vital statistics; provision of adequate health programmes.

HOSPITAL ADMINISTRATION.

Principles of organization and administration applied to the hospital as a whole; administration of special departments; medical and nursing services; personnel.

ADMINISTRATION IN PUBLIC HEALTH.

Principles of organization and administration applied to public health agencies, voluntary and official; present-day epidemiological practice; health surveys; programme planning.

TRENDS AND DEVELOPMENTS IN NURSING.

Nursing as a profession; evolution of nursing; the development of schools of nursing; nursing surveys and reports; new fields of service; war-time adjustments and implications for the future of nursing.

TEACHING IN SCHOOLS OF NURSING.

Methods of teaching; planning of instruction; curricula in schools of nursing; administration of the educational programme.

Observation and practice teaching; assignments throughout the second year and two months of concentrated experience in affiliated hospitals.

NURSING SUPERVISION IN HOSPITALS.

Principles of supervision; supervision of nursing service and nursing education; personnel; the ward teaching programme; evaluation; records.

Observation and practice; two months.

PROBLEMS IN NURSING SUPERVISION IN HOSPITALS.

Special study of the more important problems of nursing supervision as related to standards of nursing care and the education of staff and students.

SCHOOL OF NURSING ADMINISTRATION.

Organization and administration of the school of nursing; school budget; personnel; students; educational facilities and programme; working and living conditions; health service; war-time pressures and adjustments.

Observation and practice; three months.

PROBLEMS IN SCHOOL OF NURSING ADMINISTRATION.

Special study of the more important problems of the administrator, as related to the demands of the nursing service and of the school.

PUBLIC HEALTH NURSING.

Principles, functions and methods in public health nursing, with emphasis on family health; application to rural and urban fields; development of adequate maternal, infant, preschool, school and industrial nursing services.

Observation and practice; four months.

TEACHING IN PUBILC HEALTH NURSING.

Methods of teaching; criteria for selection of materials and teaching aids; programmes to meet individual, family and community health needs.

Observation and practice; assignments during the second year and also during field work period.

SOCIAL ADJUSTMENTS OF THE FAMILY.

Study of the social needs of the family; community organization to meet social needs; principles and practices in social work and implications for public health nursing.

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING.

Principles of organization and administration; policies in official and voluntary agencies; budget; personnel selection and management; supervision; staff and student education; relationships; development of rural and urban nursing programmes.

Observation and practice; three months.

PROBLEMS IN SUPERVISION IN PUBLIC HEALTH NURSING.

Special study of the more important problems in supervision, as related to development of the service, public relations, maintenance of nursing standards; staff and student education; evaluation and records.

FACULTY OF MEDICINE

SCHOOL OF PHYSIOTHERAPY

GENERAL INFORMATION

The aim of the course in Physiotherapy is to provide a supply of adequately trained graduates who will be qualified to work as Physiotherapy aides in hospitals, institutions, and private homes.

Physiotherapy is the use of heat, light, water, electricity, and mechanical agents, including massage and remedial gymnastics, in the treatment of injury and disease. Physiotherapy aides are trained in the use of these healing agents under the direction of a physician, such treatments being prescribed by the physician and carried out according to prescription.

There is a steadily growing demand for qualified Physiotherapy aides in both civilian life and the armed services. In the armed forces Physiotherapy sisters are given the same rank and commission as a nurse. In civilian life they work in hospitals, industries, clinics, and in private homes under the direction of doctors. It is a profession for women.

The curriculum consists of two academic years with two months hospital interneship at the end of the first year and six months hospital interneship at the end of the second year. Throughout the course ample provision has been made for practical hospital instruction in addition to the University training. This hospital training will be carried out at the Children's Memorial, Montreal General, Royal Victoria, and Verdun Protestant Hospitals in the Physiotherapy Departments.

Upon completion of the entire course satisfactorily, a diploma of Technician in Physiotherapy is granted by the University.

REQUIREMENTS FOR ADMISSION

Senior matriculation or one year of college work meets the requirements of the Canadian Physiotherapy Association. Candidates for admission must submit certificates to show that they have junior and senior matriculation standing in the University's School Certificate Examination or some other examination recognized by the University as equivalent. The subjects studied should include senior matriculation Physics. Biology and Chemistry are also recommended.

A list of examinations recognized for junior and senior matriculation standing is given in the School Certificate Announcement. In Ontario, for example, the equivalents are complete Middle and five subjects of the Upper School examinations.

Candidates who wish to know whether they have the academic qualifications for admission to the course should send complete details of their school and college work to:

Dr. Guy H. Fisk, Medical Director,
School of Physiotherapy,
Medical Building, McGill University.

PHYSICAL REQUIREMENTS

Candidates, in order to qualify for admission, must satisfactorily pass a complete physical examination.

FEES

Fees are due and payable at the Bursar's Office during the hours of 9 a.m. to 1 p.m. or 2.30 to 4.00 p.m. on Registration Day. If desired fees may be remitted by mail on or before the due dates. They may be paid in two instalments, in which case there is a charge of $5.00. The second instalment is due on or before February 1st.

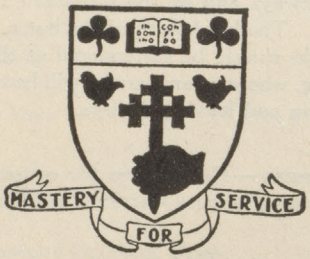
Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

For details of the courses given in the School, see the separate announcement of the School of Physiotherapy.

MACDONALD COLLEGE

McGILL UNIVERSITY



ANNOUNCEMENT

OF THE

FACULTY OF AGRICULTURE

SCHOOL OF HOUSEHOLD SCIENCE

AND

THE SCHOOL FOR TEACHERS

FOR THE SESSION 1944-45

MACDONALD COLLEGE, QUE.

GENERAL INFORMATION

POST OFFICE ADDRESS:—There is a post office in the main building, and all mail should be addressed simply: Macdonald College, Que.

RAILWAYS:—Ste. Anne de Bellevue, Que., is on the main lines of the Canadian National Railways and of the Canadian Pacific Railways, 20 miles west of Montreal. The local stations are but a short walk from the College. Baggage checks should be surrendered at the Secretary's Office, Room 11, Main Building, where arrangements will be made for the transfer of baggage upon entering and leaving College.

FREIGHT AND EXPRESS:—The address for express or freight parcels is:—Ste. Anne de Bellevue (Jacques Cartier Co.), Que.

TELEGRAMS:—Telegrams should be addressed:—Macdonald College, Ste. Anne de Bellevue, Que.

TELEPHONES:—Administrative:—Ste. Anne de Bellevue, No. 335.

Men's Residence:—Ste. Anne de Bellevue, No. 810.

Harrison House:—Ste. Anne de Bellevue, No. 407.

Women's Residence:—Ste. Anne de Bellevue, No. 806.

Avenue House:—Ste. Anne de Bellevue, No. 830.

HIGHWAY:—The Quebec provincial highway No. 2 passes through Ste. Anne de Bellevue.

BANK AT STE. ANNE DE BELLEVUE:—The Bank of Montreal.

CHURCHES:—The following denominations are represented at Ste. Anne de Bellevue:—

Church of England in Canada,

Roman Catholic Church in Canada,

United Church of Canada.

Students of all religious denominations are free to enter Macdonald College. The regulations of the Council of Education of the Province of Quebec apply only to students in the School for Teachers.

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McGILL UNIVERSITY

VISITOR

His Excellency the Right Honourable The Earl of Athlone, K.G., Governor-General of Canada.

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MACDONALD COLLEGE

Macdonald College, which was founded and endowed by the late Sir William C. Macdonald, is incorporated with McGill University, and is situated twenty miles west of Montreal, at Ste. Anne de Bellevue, Que. It is composed of the Faculty of Agriculture, which includes the School of Household Science, and of the School for Teachers for the Protestant schools of the Province of Quebec.

FACULTY OF AGRICULTURE

The work of the agricultural departments of the College falls into three main divisions: teaching, research, and extension. Teaching and research form the major part of their work. Extension service is undertaken by departments as the need or opportunity may arise.

Macdonald College is officially recognized as the finishing institution for students who have taken their preliminary training at the Nova Scotia College of Agriculture, Truro, Nova Scotia.

The terms of the affiliation provide:—

That the entrance requirements for degree work at Truro shall correspond to those required by the Faculty of Agriculture, McGill University; and

That the Nova Scotia College of Agriculture, in consultation with Macdonald College, shall so co-ordinate her courses that it shall be possible for students from Truro to enter the advanced classes at Macdonald College with the same degree of training and academic equipment as those who have had preliminary training at the latter institution.

THE SCHOOL OF HOUSEHOLD SCIENCE

The School of Household Science is an integral part of the Faculty of Agriculture. The main function of the School is teaching, in relation to the home and for professional service in institutions.

SCHOOL FOR TEACHERS

The School for Teachers is a School of McGill University, controlled by a committee established under an agreement with the Government of the Province of Quebec. The School trains elementary, intermediate, and kindergarten teachers for the Protestant schools of the Province of Quebec.

For the duration of the war the School for Teachers will be operated at Strathcona Hall, 772 Sherbrooke St. W., Montreal.

THE INSTITUTE OF PARASITOLOGY

This Institute, located at Macdonald College, is governed by a joint committee of the National Research Council and McGill University, and has, as its main functions, the prosecution of research on animal parasites and the instruction of graduate students.

ASSOCIATED COLLEGES

By special agreement, certain institutions have arranged to provide their students with a course of study substantially equivalent to the first two years in Agriculture and Household Science at Macdonald College. Students who have satisfactorily completed such a course of study and are specifically recommended by the authorities of their college are permitted to enter the third year at Macdonald College.

The following are the Institutions with whom the foregoing arrangement exists:—

Nova Scotia College of Agriculture, Truro, N.S.
(Agriculture only);

Prince of Wales College, Charlottetown, P.E.I.
(Agriculture and Household Science);

Memorial College, St. John's, Newfoundland
(Agriculture and Household Science).

MACDONALD COLLEGE

(McGILL UNIVERSITY)

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N. Nikolaiczuk, M.Sc. (Alberta), Assistant Professor of Poultry Husbandry.

A. N. Nussey, B.Sc. (Agr.), Lecturer in Pomology.

William Fraser Oliver, B.A., (McMaster), M.A., Ph.D. (Toronto), Assistant Professor of Physics.

J. M. Paton, M.A., B.Paed., Assistant Professor and Chairman of the Department of English.

L. C. Raymond, M.S. (Wisconsin), Associate Professor of Agronomy.

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A. H. Walker, Instructor in Floriculture.

W. E. Whitehead, M.Sc., Lecturer in Entomology.

C. L. Wrenshall, Ph.D., Assistant Professor Chemistry. (On leave of absence).

SCHOOL OF HOUSEHOLD SCIENCE

Director:—Margaret S. McCready, B.A. (Toronto), Assistant Professor of Nutrition.

Helen E. Daubney, B.Sc. (H.Ec.), (Acadia), Lecturer in Textiles and Clothing.

D. Elizabeth Fowler, B.H.S., Assistant in Household Science: Dietitian.

F. Isabel Honey, M.A. (Toronto), Lecturer in Foods and Cookery and Educational Methods.

Alice M. Stickwood, B.S., M.A. (Columbia), Lecturer in Foods, Dietetics and Institution Administration.

To be appointed: Lecturer and Supervisor of Home Management House.

SCHOOL FOR TEACHERS

Dean and Director:—Sinclair Laird, M.A., B.Phil., D.Paed., Officier de l'Instruction Publique; Professor of Education.

Rev. Cyril H. Adair, B.A., B.D., Honorary Lecturer in Religious Instruction.

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Frank K. Hanson, Mus. B., Lecturer in Music.

J. M. Paton, M.A., B.Paed., Assistant Professor and Chairman of the Department of English.

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Dorothy J. Seiveright, M.A., Lecturer in History and Geography.

Alice F. Joedicke, B.A., B.S. in Phys. Ed., Instructor in Physical Training.

William A. Steeves, B.A., Ed.M., Lecturer in Mathematics.

Rev. Canon F. L. Whitley, M.A., Honorary Lecturer in Religious Instruction.

To be appointed: Kindergarten Teacher and Instructor in Kindergarten Methods. Lecturer in Art and Interior Decoration.

Macdonald High School (Demonstration and Practice School)

Headmaster: Malcolm DeF. Davies, B.A.

Teachers:

Elsie Copping Armstrong
Marguerite Brayne
Margaret S. Darker
Anne C. Grant
Dorothy A. Houston
Mabel H. Langley
Margaret Maxwell
Frances Maxwell
Jacquelline Schwartz, French Specialist
Jessie Snaden

Mrs. J. Murray Gibbon, Honorary Librarian.

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R. A. Chapman, M.Sc.

Warden of Women's Residence
Mrs. Marion G. Strang

Resident Nurse, Men's Residence
M. E. Scott, S.R.N.

Resident Nurse, Women's Residence
To be appointed.

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R. ALEX. SIM, B.A. (Toronto), M.A. (Columbia).

Director of Handicrafts

IVAN H. CROWELL, B.Sc. (New Brunswick,) A.M. (Miami), A.M., Ph.D. (Harvard).

Film Agent

ELEANOR SIM, B.A.

Instructors in Handicrafts

FRANCES WREN (Leathercrafts)

ENID DAVIDSON (Weaving)

CALENDAR FOR SESSION 1944-45

1944

Tuesday, Sept. 5th.....Registration, School for Teachers.

Wednesday, Sept. 27th...Field work begins for students taking Hort. 38, 39.

Friday, Sept. 29th.....Supplemental examinations, B.Sc. (Agr.) and B.Sc. (H.Ec.) students.

Monday, Oct. 2nd.....Registration, B.Sc. (Agr.), B.Sc. (H.Ec.), and Third Year Diploma Course students.

Tuesday, Oct. 3rd.....Lectures begin for B.Sc. (Agr.), B.Sc. (H.Ec.), and Third Year Diploma Course students.

Friday, Oct. 6th.....Convocation.

.....Thanksgiving Day. No lectures.

Wednesday, Nov. 1st....Registration, Diploma Course students.

Wednesday, Dec. 20th...Last day of lectures before Christmas, all schools.

1945

Wednesday, Jan. 3rd.....Supplemental examinations, all classes in Agriculture and Household Science.

Wednesday, Jan. 3rd
to
Friday, Jan. 5th inc.....Intermediate and Elementary class practice teaching, Montreal and elsewhere.

Wednesday, Jan. 3rd.....Lectures resumed in Agriculture and Household Science, 8.30 a.m.

Monday, Jan. 8th.....Lectures resumed in School for Teachers, 9.00 a.m.

Monday, Jan. 22nd.....First term examinations begin, Agriculture and Household Science.

Monday, Jan. 29th.....Second term begins for all classes in Agriculture and Household Science, 8.30 a.m.

Saturday, Feb. 10th.....Macdonald College Founder's Day. No classes.
(*Sir William C. Macdonald, born February 10th, 1831, died June 9th, 1917*)

Monday, March 26th
to
Thursday, March 29th...Intermediate and Elementary classes practice teaching, Montreal and elsewhere.

Thursday, March 29th...Session ends for Diploma Course students.

Friday, March 30th
to
Monday, April 2nd inc...Easter vacation.

Tuesday, April 3rd.....Supplemental examinations, Diploma Course.

Sunday, April 22nd.....Baccalaureate Service, 3.00 p.m.

Thursday, April 26th.....Examinations begin, B.Sc. (Agr.) and B.Sc. (H.Ec.) courses.

Wednesday, May 30th...Convocation.

Thursday, June 7th.....Closing Exercises, School for Teachers. End of session.

ADMISSION

A form of application for admission to the Faculty of Agriculture, including the School of Household Science, will be found at the end of the Announcement. Prospective students must read the details relating to entrance requirements.

Prospective students of the School for Teachers are referred to page 963.

REGISTRATION

Students are required to register before 4 p.m. on the opening day of each session of the Faculty or School in which they have been accepted, and before entering residence to obtain a residence card from the Secretary's Office. Registration at a later date is permitted only to those who obtain the consent of the Dean or Director of the Faculty or School concerned.

Students are not permitted to enter any class until they have registered.

Students arriving before the opening day, or remaining after the close of the session, will be charged at the rate of $3.00 per day, unless such arrival in advance, or delay in leaving, is due to steamship connections.

Upon registering students are required to sign the following declaration:—"I hereby accept and submit myself to the rules and regulations of Macdonald College, and of the Faculty or School thereof in which I am registered, and to any amendments thereto which may be made while I am a student of the College, and I promise to observe the same."

RESIDENCE

All regular students are required to live in residence.

Rooms must be claimed in person on the opening day.

Students may not invite relatives or friends to stay overnight in the residence without permission from the Warden of Residence and an admission card from the Secretary's Office.

For the admission of visitors to the Dining Room the permission of the Secretary must be obtained and tickets procured in advance from the Office of the Dietitian, Women's Residence.

Students are held responsible for the care of their rooms and of their furnishings.

Students are recommended to mark clearly, in indelible ink, before coming to the College, all articles of wearing apparel, sheets, pillow cases, etc.

Detailed regulations are printed separately and issued to students after arrival.

CONDUCT AND ATTENDANCE

The general responsibility for the maintenance of discipline in each Hall of Residence is vested in a Warden, but, through a system of self-government, students are encouraged to accept the greatest possible

amount of responsibility in connection with their own affairs. Enforcement of necessary regulations, exaction of disciplinary measures, and regulation of conduct *in and out of residence*, is largely in the hands of a House Committee for each residence, elected by the students from among their own number.

Matters of discipline connected with or arising from the general arrangement for teaching within a Faculty or School are under the jurisdiction of the Dean of the Faculty or Director of the School concerned.

Students may be admonished by a professor or instructor for improper conduct and may be reported to the Dean or Director concerned. If considered advisable, such conduct shall be reported to parents or guardians.

Students found guilty of immoral, dishonest, or other improper conduct, the violation of rules, or wilfully causing damage to persons or property, shall be liable to College discipline, which includes the power of expulsion (subject to the approval of the Senate of McGill University), of suspension from classes or residence (in the case of women students, confinement to residence), of disqualification from competing for honours or prizes, and of levying of fines. Fines may also be imposed or assessments made for damages made by individuals or groups of students.

Bringing liquor into the College is considered a serious breach of discipline, and students who indulge in the use of liquor, or who frequent places where it is sold, may be required to withdraw from the College.

Students are not permitted to bring firearms into their rooms, nor is the use of firearms allowed on the College grounds.

Students are requested not to make application for additional leave either before or after holiday periods, as such leaves can only be granted in case of illness or other exceptional circumstances.

For late registration or for absence from classes on the last day before or the first day following a holiday period, there will be a penalty of $3.00 for each day or part of a day.

During illness students are under the direction of the Medical Officer and may not leave the residence without his express permission.

Punctual attendance at all classes, laboratory periods, tests, etc., is expected of all students. Absences can only be excused on the ground of necessity or illness, of which proof may be required. Special attention is called to the fact that the completion of all laboratory work is obligatory and the opportunity to make up work missed can only be provided in the case of properly excused absences.

The College has the power to refuse examinations to those students who persist in absenting themselves from classes without permission.

Any student who is unwilling to submit cheerfully to the restrictions of college life, whose conduct does not furnish satisfactory evidence of diligence and earnestness of purpose, or whose work is definitely unsatisfactory, may be required to withdraw from the college.

LEAVE-OF-ABSENCE

Women Students

Women students in residence, in order to avail themselves of the following leaves, must present at the beginning of each session a form signed by parent or guardian, giving general permission or specifying the manner in which leaves may be spent. Blank forms will be sent to all students before the date set for registration.

Except in cases of emergency, telephone messages or telegrams requesting leave-of-absence for women students will on no account receive consideration.

Allowances for leaves are based on the student's year. A student is entitled to the privileges of her year only when in good academic standing. Conditioned students in the second, third or fourth year have the allowances granted to the year below.

All women students are granted the following privileges:—(1) Freedom of movement, except during class hours, in the town of Ste. Anne de Bellevue, until 7.45 p.m.; (2) A "free day" after lectures on Saturdays, the return to the residence to be not later than 10.00 p.m.; (3) Late leave in Ste. Anne de Bellevue on Saturday, lasting until 11.00 p.m.

In addition, first year students are granted two week-end leaves per month and two late leaves per month. Second year students are permitted two week-end leaves per month and one late leave per week. Third year students have three week-end leaves per month, one late leave per week, and two 12.15 leaves a month. Fourth year students have four week-end leaves per month, two late leaves per week, one 12.15 leave a week and one 2.00 a.m. leave a week. All senior students are permitted to go to Montreal outside of class hours, returning not later than 7.45 p.m. Students are required to register in the "leave book" when going and returning.

Students wishing to stay at hotels, lodges, etc., when on leave are required to have the written consent of their parents to do so.

On no account shall a student be absent from college without the knowledge and consent of the warden. Absence from college without permission is a serious offence which renders the student liable to instant suspension or dismissal. If prevented from returning after an absence due to illness or other cause, students must advise the Warden immediately, and such students must report at the Warden's office immediately upon their return.

All applications or communications regarding the conduct of women students in residence should be addressed to:

The Warden,
Women's Residence,
Macdonald College, Quebec.

Women students will, if necessary, be excused from lectures and residence on a Saturday to visit a physician, on production of a letter from the physician indicating the hour of appointment.

In cases of urgency, dental appointments are allowed, but students are requested to have dental work attended to before entrance.

Men Students

First Year Diploma and Degree students must obtain permission from the Dean should they wish to have overnight leave-of-absence. All students who expect to be absent from the College should leave some record of their movements.

CONTAGIOUS OR INFECTIVE DISEASES

Students on holiday, or accepted candidates for admission, who become subject to an attack of any contagious or infective disease, or who reside in any dwelling in which any such disease exists, shall be subject to the following quarantine regulations:—

	Quarantine to be required after last exposure to infection.	Earliest date of return or admission to College after an attack.
Scarlet Fever	14 days	Six weeks, and then only if no desquamation or sore throat.
Diphtheria	12 days	Three weeks, if convalescent is complete, provided two negative throat cultures at least twenty-four hours apart have been obtained.
Measles	16 days	Three weeks, if all desquamation and cough have ceased.
Whooping-Cough	21 days	Six weeks from commencement of whooping, if the characteristic spasmodic cough and whooping have ceased. Earlier if all cough has gone.
German Measles	16 days	Two or three weeks, according to the nature of the attack.
Mumps	24 days	Two weeks after the disappearance of all swelling.
Influenza	14 days	Two weeks after disappearance of definite symptoms of influenza.
Typhoid	21 days	Four weeks if all symptoms have disappeared and convalescence is complete.
Small-pox	16 days	Two weeks after the desquamation (which follows the falling of scales) has completely terminated.
Chicken-pox	14 days	Ten days after the desquamation has completely terminated.

In all cases of students, or accepted candidates for admission, suffering from, or coming in contact with those suffering from any contagious or infective disease, a medical certificate shall be required before they are allowed to return to the College.

VISITORS TO STUDENTS

Saturday is visitor's day. In the afternoon, students are free to see their friends and show them around the buildings and grounds. Men visitors to women students are allowed only in the reception rooms in the Women's Residence, and only on specially arranged occasions.

MUSIC

Music finds a place in the recreative and social activities of the College. Concerts, organ recitals, lectures, etc., will be given from time to time. It is suggested that those having violins, cellos, or other orchestral instruments, should bring them.

TUITION AND LABORATORY FEES

FACULTY OF AGRICULTURE

Registration Fee

Students in Agriculture.....$ 5.00

Tuition

Diploma Course:—

Residents of Canada.....Free

Students from outside of Canada.....$50.00

B.Sc. (Agr.) First and Second Years:—

Sons, daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces. Free

Other residents of Canada.....$ 50.00 per year

Students from outside of Canada.....$100.00 per year

B.Sc. (Agr.) Third and Fourth Years:—

Residents of Canada.....$ 50.00 per year

Students from outside of Canada.....$100.00 per year

Partial Students:—

	Per Course Per Term	Per Year Min.	Per Year Max.
Diploma Course:—			
Residents of Canada.....	$ 5.00	$10.00	$25.00
Students from outside of Canada....	10.00	20.00	50.00
B.Sc. (Agr.):—			
Residents of Canada.....	5.00	10.00	50.00
Students from outside of Canada....	10.00	20.00	100.00

The maximum fees for students taking courses in both curricula are those applying to the B.Sc. (Agr.) curriculum.

Definitions

1. *Residents of Canada:*—Those whose parents, or who themselves, are *bona fide* rate-payers, or those who have resided continuously in Canada for two years.

2. For purposes of determining fees for tuition, the status of a student at entrance obtains throughout the course for which he registers.

Laboratory Fees

Diploma Course.....$ 5.00 per year

B.Sc. (Agr.) First and Second Years..... 10.00 per year

B.Sc. (Agr.) Third and Fourth Years..... 15.00 per year

Partial Students:—

	Per Course Per Term	Per Year Min.	Per Year Max.
Diploma Course	$5.00	$10.00	$10.00
B.Sc. (Agr.) First and Second Years	5.00	10.00	10.00
B.Sc. (Agr.) Third and Fourth Years	5.00	10.00	15.00

The maximum fees for students taking courses in both curricula are those applying to the B.Sc. (Agr.) curriculum.

Supplemental Examination Fees

Regular Supplemental Examinations, for each examination period (morning or afternoon) $2.00
Special Supplemental Examination $5.00

Other Fees

Conferring Degree *in absentia* $10.00
Official transcript of student's record $1.00

SCHOOL OF HOUSEHOLD SCIENCE

Registration Fee

Students in Household Science $5.00

Tuition

B.Sc. (H.Ec.) Degree Course:—
Residents of Canada ..... $100.00 per year
Students from outside of Canada ..... $125.00 per year

Homemaker Course:—
Daughters, etc., of farmers of the Province of Quebec ..... Free
Other residents of Canada ..... $150.00 per year
Students from outside of Canada ..... $175.00 per year

Partial Students:—
Registration fee $5.00
Tuition ..... $5.00 per course per term

Laboratory Fees

B.Sc. (H.Ec.) Degree Course $15.00
Homemaker Course $10.00
Partial Students ..... Minimum $10.00

Supplemental Examination Fees

Regular Supplemental Examinations, for each examination period (morning or afternoon) $2.00
Special Supplemental Examination $5.00

Other Fees

Conferring Degree *in absentia* $10.00
Official transcript of student's record $1.00

SCHOOL FOR TEACHERS

Tuition

All Students ..... Free

Laboratory Fees

All Students ..... $10.00 per year

OTHER EXPENSES

Caution Money

Every student must make, at the time of registration, a cash deposit of $5.00 with the Secretary of the College, to cover fines, breakages, etc.; and as soon as any student's deposit is exhausted he or she will be required forthwith to make an additional deposit of the same amount.

Student Activities

Students entering the College are reminded that there are various student activities, such as the athletic associations, literary societies, class societies, etc., which they are expected to join. These affairs are in the hands of the students themselves, and the expenses of these organizations amount, for the session, as follows:—For

	Men	Women
Students of courses one year and longer.....	$11.35	$7.50
Diploma Course in Agriculture.....	$ 9.55	

At the request of the students themselves, the above fees will be collected from all students for the support of the athletic associations, literary societies, skating rink, etc.

Living Expenses

The charges for board and lodging are $8.00 per week.

There are a few single rooms in the Women's Residence; occupants of these are charged $1.50 per week extra.

If students, on account of the large number of applications received, cannot be accommodated in the College Residence, board and lodging may possibly be obtained for them in the town of Ste. Anne de Bellevue.

A laundry fee of $1.00 for the session is payable by all women students for use of the laundry provided in the Women's Building, which will be open at certain hours daily.

Students are required to send their personal washing to the College Laundry, except such small things as may be done by the women students themselves. Moderate prices will be charged. Printed laundry lists will be furnished, two copies of which, properly filled out, must accompany each parcel.

Illness Charges

Medical and nursing attendance, major operations and illness excepted, will be provided to all students while in residence at the College. For this a charge per student for the session will be made as follows:—

Diploma Course in Agriculture $3.50
All other students $4.00

Students will pay the cost of medicines as furnished.

When it is necessary to remove a student to a city hospital, all charges, including medical attendance, must be borne by the student or his guardian.

A charge of 25 cents extra per meal will be made for all meals served in a student's room or outside the dining room, such meals being provided only when approved by the Warden.

Books

Books, etc., in connection with the various courses may be purchased at the College Book Shop. In order to reduce the expense of textbooks as far as possible to individual students, an arrangement has been made whereby students of the School for Teachers will pay to the Secretary the sum of $2.00 per session for the use of books in certain departmental libraries; this will save students the necessity of purchasing individual copies of expensive books.

Household Science Trips

Students in Household Science are taken to visit various institutions in connection with their work, from time to time during their course, more especially in the senior years. Each student is responsible for her own expenses, which are kept to the minimum amount.

Supplies

Material and supplies required for classes in Textiles and Clothing are provided by the students concerned and purchased at the direction of the instructor.

Room Furnishings

Bedrooms are furnished with closets, beds, mattresses, blankets, pillows and rugs, and the necessary furniture.

Each student is expected to provide his or her own laundry bag, toilet soap, drinking glass, four sheets, about 90 inches long, 60 inches wide; two pillow covers, 34 inches long, 20 inches wide; hand towels and bath towels.

Each room is provided with picture moulding. Students are permitted to bring rugs, pictures, etc., but are not allowed to drive tacks or nails into walls or woodwork, or to paste pictures on the walls.

For the benefit of students wishing to provide covers, the following measurements are given:—

Table top:—48 inches long, 32 inches wide; bureau top:—42 inches long, 22 inches wide; Washstand top:—36 inches long, 18 inches wide.

Women students are required to provide sash curtains and curtain rods for the windows in their rooms. Material for the curtains, which costs 25c. per yard, as well as the curtain rods, must be purchased at the College Book Shop.

Outfit Requirements for Women Students

School of Household Science:—

B.Sc. (H.Ec.) and Homemaker Students.

Dresses.—Two dresses are necessary. The material required is from 4 to 4½ yards for each uniform. It is 32 inches wide, 65 cents per yard, and is obtained from the Secretary on receipt of amount covering quantity required. The material must be shrunk before being made up and, to allow for further possible shrinkage, skirts should be made with a six-inch hem. Skirt should be of reasonable length according to present fashions. Sleeve should be just above the bend of elbow on the inside.

Collars.—Special white collars are to be worn with dress and fastened by a bar pin, both of which should be obtained at the College Book Shop at 35 cents and $1.30 respectively. A collar must be obtained with the uniform material and be used in determining the opening at the neck of the blouse, which should be cut only low enough to permit of the collar being fastened in front by the bar pin. In addition to the pin the only jewellery permitted to be worn with the uniform is a watch and a class pin or class ring.

Aprons.—Four aprons of white cloth or linen, coming to within two inches of the bottom of the dress, are necessary for work at cookery classes. One coloured apron is required, the material to be the same as the dress. Material required—3½ to 4 yards.

Aprons should be made from a standard nurse's apron pattern, with gored skirt and bib top.

Pattern for the dress will be enclosed with dress material for forty-five cents additional. *Dresses must be made according to this pattern with matching belt and white buttons.* Dress pattern comes in sizes 32-40. *Be sure to specify size required when ordering.*

Towels.—Four small white huckaback hand towels, one-half yard long, with a button-hole in one corner to button to waistband.

Potholders.—Two, each six inches square, covered with dress material and a bias binding of same, with a white tape to button to waistband.

Aprons, towels and potholders are not required by B.Sc. (H.Ec.) students until they enter the second year.

All the above pieces must be marked clearly in indelible ink with student's name.

Shoes.—White oxfords with low rubber heels are required. Stockings must also be white.

Workbasket.—Equipped with scissors, tape line, thimble, etc., for clothing classes.

The uniform is worn at all classes, and prospective students are requested to note carefully the regulations with reference to it. If in doubt in regard to any detail, write to the Director of the School for information.

Candidates for admission should await notice from the College of their acceptance before ordering uniform material.

School for Teachers:—Until further notice, no uniform will be worn. The following suggestions are given as a guide. Shirtwaist dresses in either wool or rayon in the darker colours are ideal for day wear. Suitable colours are navy, brown, black, dark green and wine. Comfortable shoes with medium or low heels are required.

A smock of cotton material is useful when teaching certain subjects and when engaged in practical work.

Gymnastic Costume

Women students taking work in the gymnasium will be required to wear the regulation gymnastic costume consisting of a tunic, shirt waist, knickers, black running shoes, and *extra long* non-tranparent black stockings. Tunics should be rented from the College Book Shop for the session; shirt waist, knickers, shoes, and stockings may be purchased from the Book Shop for $1.50, 60 cents, $1.25, and $1.00 respectively. Round garters must *not* be worn with gymnastic costume. Athletic girdles may be purchased from the Book Shop for $1.10.

Students wishing to swim must provide themselves with woolen bathing suits of guaranteed fast colour.

PAYMENTS

All fees are payable in advance. There is no refund of fees to students who leave for any cause other than personal illness, nor to those who are dismissed for neglect of work or violation of the rules.

Payments for board must be made from time to time throughout each term, at the beginning of each period of four weeks, *strictly in advance.*

Payments in advance may be made for a longer period than four weeks.

No allowance is made for absence during temporary suspension from residence, nor for absence of less than one week for any cause other than personal illness. No extra allowance will be made to students who have obtained pre-holiday leave.

Students who fail at any time to make payment for board promptly in advance *will be charged $2.00 extra* for each time such failure occurs.

A list of the registered students whose accounts with the Secretary are in arrears will be sent to the Dean or Director of the Faculty or School concerned, on receipt of which the Dean, or Director, shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class or residence except on presentation of a special notice signed by the Secretary, certifying to the settlement of such account.

The Secretary's Office will be open to receive payments from 9 a.m. to 4.30 p.m. daily—except Saturday, on which day the hours will be from 9 a.m. to 12 noon.

All cheques, money orders, etc., should be drawn to the order of "The Secretary, Macdonald College, Que.," to whom all remittances, orders for dress material, etc., must be directed.

PROVINCIAL GOVERNMENT GRANT

The Department of Agriculture of the Province of Quebec grants to each graduate and undergraduate student in Agriculture who belongs to the Province of Quebec, and is registered for regular courses, $9.00 per month of attendance in studying according to the time table in the Faculty of Agriculture, Macdonald College, to apply on board and lodging. This amount will be paid in two instalments, in January and in May.

McGILL UNIVERSITY LIBRARY

PAYMENTS AT ENTRANCE—MEN

	Registration Fee	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Advance	Medical Charge	Student Activities	School for Teachers' Textbooks Reduction (Page 26)	TOTAL
FACULTY OF AGRICULTURE (a):—									
Diploma Course First and Second Years:—									
Residents of Canada	$5.00	Free	$ 5.00	$5.00	$32.00	$3.50	$ 9.55	.....	$ 60.05
Students from outside of Canada	5.00	$50.00	5.00	5.00	32.00	3.50	9.55	.....	110.05
B.Sc. (Agr.) First and Second Years:—									
Sons, etc., of farmers of the Province of Quebec, or the Ottawa Valley in Ontario, and of the Maritime Provinces	5.00	Free	10.00	5.00	32.00	4.00	11.35	.....	67.35
Other residents of Canada	5.00	50.00	10.00	5.00	32.00	4.00	11.35	.....	117.35
Students from outside of Canada	5.00	100.00	10.00	5.00	32.00	4.00	11.35	.....	167.35
B.Sc. (Agr.) Third and Fourth Years:—									
Residents of Canada	5.00	50.00	15.00	5.00	32.00	4.00	11.35	.....	122.35
Students from outside of Canada	5.00	100.00	15.00	5.00	32.00	4.00	11.35	.....	172.35
Graduate Students	.....	.....	.....	.....	32.00	.....	.....	.....	32.00(b)
SCHOOL FOR TEACHERS:—									
All Classes	.....	Free	10.00	5.00	32.00	4.00	11.35	2.00	64.35

(a) Students in Agriculture of the Province of Quebec receive, at the end of each term, a grant from the Provincial Government of $9.00 per month of attendance on account of board. See page 907.

(b) For further fees see Announcement of the Faculty of Graduate Studies and Research, McGill University, Montreal, Que.

PAYMENTS AT ENTRANCE—WOMEN

	Registration Fee	Tuition per Session	Laboratory Fee	Caution Money Deposit	4 Weeks' Board in Advance (a)	Medical Charge	Laundry Fee	Student Activities	School for Teachers' Textbooks Reduction (Page 26)	TOTAL
FACULTY OF AGRICULTURE (b):—										
B.Sc. (Agr.) First and Second Years:—										
Daughters, etc., of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces	$5.00	Free	$10.00	$5.00	$32.00	$4.00	$1.00	$7.50	.....	$ 64.50
Other residents of Canada	5.00	$50.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	114.50
Students from outside of Canada	5.00	100.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	164.50
B.Sc. (Agr.) Third and Fourth Years:—										
Residents of Canada	5.00	50.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	119.50
Students from outside of Canada	5.00	100.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	169.50
SCHOOL OF HOUSEHOLD SCIENCE:—										
B. Sc. (H.Ec.) Degree Course:—										
Residents of Canada	5.00	100.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	169.50
Students from outside of Canada	5.00	125.00	15.00	5.00	32.00	4.00	1.00	7.50	.....	194.50
**Homemaker Course:—*										
Daughters, etc., of farmers of the Province of Quebec	5.00	Free	10.00	5.00	32.00	4.00	1.00	7.50	.....	64.50
Other residents of Canada	5.00	150.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	214.50
Students from outside Canada	5.00	175.00	10.00	5.00	32.00	4.00	1.00	7.50	.....	239.50
GRADUATE STUDENTS	.....	.....	.....	.....	32.00	.....	1.00	.....	.....	33.00(c)
SCHOOL FOR TEACHERS:—										
All Classes	.....	Free	10.00	5.00	32.00	4.00	1.00	7.50	$2.00	61.50

(a) Occupants of single rooms are charged $1.50 extra per week.

(b) Students in Agriculture of the Province of Quebec receive, at the end of each term, a grant from the Provincial Government of $9.00 per month of attendance on account of board. See page 907.

(c) For further fees see Announcement of the Faculty of Graduate Studies and Research, McGill University, Montreal, Que.

* Discontinued until after the war.

FACULTY OF AGRICULTURE

The following courses of study are offered in the Faculty of Agriculture:—

I. Courses in Agriculture:—

(a) Partial Courses (page 911).

(b) A two-year Diploma Course (page 911).

(c) Advanced Diploma Course (page 918).

(d) A four-year Course leading to the Degree of Bachelor of Science in Agriculture, (B.Sc. [Agr.]) (page 919).

(e) Graduate Courses in the Faculty of Graduate Studies and Research, McGill University (page 943).

II. Courses in Household Science:—

(f) Partial Courses (page 953).

(g) A one-year (Homemaker) Course (page 953). Discontinued for the duration of the war.

(h) A four-year Course leading to the Degree of Bachelor of Science in Home Economics (B.Sc. [H.Ec.]) (page 956).

ENTRANCE REQUIREMENTS

General

All candidates for admission:—

1. Except where otherwise provided, must have passed their seventeenth birthday.

2. Must produce satisfactory evidence as to moral character.

3. Must produce medical certificate of physical health. A certificate of vaccination must be attached as follows:—(a) Successful vaccination within seven years; or, (b) Immunity to vaccine after two recent unsuccessful vaccinations—such certificate of immunity to be good for five years from date.

When the number of women candidates is in exceess of the accommodation, preference will be given to those from the rural districts of Quebec, the Maritime Provinces, and Eastern Ontario.

NOTE:—Form of application for admission will be found at the end of the announcement.

Permission to Study

Every candidate for admission to the Degree Course in Agriculture must, before beginning his course, obtain approval of his application from La Corporation des Agronomes, if he intends to practise as a professional agriculturist in the Province of Quebec after graduating. Forms of Application for Permission to Study and full particulars may be obtained from La Corporation des Agronomes de la Province de Quebec, Room 410, 10 St. James St. W., Montreal, or from the Registrar, Macdonald College.

Failure to comply with the regulations of the Corporation may cause a delay of a year or more before the candidate may be legally authorized to practise his profession in the Province of Quebec. Application for permission to study must be made before August 1st, 1944.

Deposit with Application

A deposit of $5.00 should accompany each application for admission to the School of Household Science; this deposit, if the application is accepted, will be applied on account of payments due at entrance. In the event of the non-acceptance of such application, the deposit will be returned. Applicants failing to register will forfeit the amount deposited, unless the cause shown is considered adequate by the College authorities.

I. COURSES IN AGRICULTURE

(a) Partial Courses

Partial courses may be taken as follows:—

1. In one or more courses of the B.Sc. (Agr.) curriculum by matriculated students who shall be designated partial students of the Degree Course.

2. In one or more courses of the Diploma Course curriculum by students who shall be designated partial students of the Diploma Course.

3. At the option of the Dean and the departments concerned, partial students of the Diploma Course may be permitted to follow certain courses of the Degree Course curriculum, though not for credit towards a degree. Such students shall pay the tuition fees applying to courses of the Degree Course curriculum.

The main purpose of the Partial Course is to enable students from other faculties or other universities to integrate their previous courses with those at Macdonald College. No student proceeding to a degree will be permitted to register for more than one session as a partial student. Applications in all cases must be approved by the Dean of the Faculty of Agriculture, and registration must be made in the regular way before students enter upon their work.

For regulations regarding fees applicable, see page 901.

(b) Diploma Course

This is a two year course of five months' duration in each year commencing about November 1st, and finishing about March 31st. It affords a special opportunity of spending one or two winter seasons in studying Agriculture, and the time is selected with a view to interfering as little as possible with farm operations. It is intensely practical in character and is designed with the following objects in mind:—To give the largest amount of information and training in practical agriculture in the shortest possible time; to equip the student for solving his future problems; to awaken him to the many opportunities on the farm; to give him an inspiration in his agricultural work; and to enable him to fill a more useful place in rural citizenship.

The work of the first year is taken by all students in common; in the second year a student may choose subjects that have to do either with dairy farming or fruit farming. A diploma will be granted to each student who completes the two years' work successfully.

Diploma Course Entrance

1. For General Requirements see page 910.

2. All candidates for admission to the Diploma Course must have passed their sixteenth birthday and will be required to read and write the English language acceptably, to be proficient in the use of arithmetic and to have had some farm experience.

Diploma Course Syllabus

(See page 944)

DESCRIPTION OF COURSES

AGRICULTURAL ENGINEERING

1. Farm Machinery.—A study of the gas engine as applied to stationary purposes, the automobile and the tractor. (b) Implements and Machinery. The use and adjustments of tillage and harvesting machinery.

1st Yr.:—1 lect., 3 labs., per wk., 1st term. Mr. Cooper.

2. Farm Construction.—(a) Farmstead planning including the arrangement of the various buildings, the planning of houses and barns; fences and fencing. (b) Carpentry and concrete work.

1st Yr.:—1 lect., 2 labs., per wk., 2nd term. Professor Heimpel.

Text Book:—Stewart—Engineering on the Farm.

6. Land Drainage.—The water table and its control; surface drains and underdrainage. (b) Farm Sanitation. Water supplies and water systems, methods of sewage disposal.

2nd Yr.:—2 lect., 2 labs., per wk., 1st term. Professor Heimpel.

7. Farm Shopwork.—Blacksmithing, rope splicing, soldering and farm plumbing.

2nd Yr.:—1 lect., 2 labs., per wk., 2nd term. Mr. Cooper.

Text Book:—Jones—Farm Shop Practice.

AGRICULTURE

1. A general course on Agriculture designed to give the student a proper conception of farming as an occupation and an appreciation of some important considerations in the selection and operation of farms.

1st Yr.:—1 lect., per wk., 2 terms. Professor Hamilton.

AGRONOMY

1. Soils and Soil Management.—Classes of soil, tillage, rotation, manuring, fertilizers, liming, drainage, etc., will be studied with a view to enabling the student to manage the soil on his own farm to best advantage.

1st Yr.:—3 lects., per wk., 1st term. Professor Lods.

3. Hay and Pasture Crops.—These crops will be studied from the standpoints of their importance, varieties, culture and management.

1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Mr. Bird.

5. Corn and Root Crops.—As with Hay and Pasture Crops.

1st Yr.:—3 lects., per wk., 2nd term. Professor Raymond.

7. Crop Management.—Factors determining the crops to grow, cropping schemes for typical situations in Eastern Canada. Fertilizers and seed will be given further attention in this course.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Summerby.

9. Grain Crops.—As with Hay and Pasture Crops.

2nd Yr.:—2 lects., 1 lab. per wk., 1st term. Professor Lods.

ANIMAL HUSBANDRY

1. Farm Live Stock.—Commercial types and classes of farm stock their care and management; feeding; breeding; and judging.

1st Yr.:—3 lects., 2 labs., per wk., 1st term; 2 lects., 2 labs., per wk., 2nd term. Professors Ness and Hamilton.

6. Farm Live Stock.—A continuation of course 1, but dealing particularly with purebred stock.

2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Ness and Hamilton.

7. Live Stock Breeding.—In this course the more important basic principles underlying breeding practice are considered. Selection of breeding animals is studied in the light of what is known in regard to reproduction, transmission of characters, heredity, and environment.

2nd Yr.:—2 lects., per wk., 2nd term. Professors Ness and Crampton.

8. Live Stock Feedng.—This course is primarily a study of the common feeding stuffs used in the rations of farm live stock. Feeding practice is considered in relation to the principles of animal nutrition, and practice is given in the compounding of satisfactory rations.

2nd Yr.:—2 lects., per wk., 1st term. Professor Crampton.

ANIMAL NURSING

6. The course will cover situations usually encountered by farm managers and herdsmen.

2nd Yr.:—2 lects., 1 lab. per wk., 2nd term. Mr. Barker.

BACTERIOLOGY

1. Bacteriology.

1st Yr.:—1 lect., 1 lab., per wk., 2nd term. Dr. Thatcher.

BOTANY

1. Agricultural Botany.—The course consists of a study of the fundamentals of growth and reproduction processes in plants. The botany of economic plants will be studied as much as possible and consideration given to weeds and weed seeds and their control.

1st Yr.:—1 lects., 1 lab., per wk., 1st term.

CHEMISTRY

1. Elementary Chemistry, with applications to soils, fertilizers, feeding stuffs, and insecticides and fungicides.

1st Yr.:—2 lects., 1 lab., per wk., 1st term. Professor DeLong.

DAIRYING

6. Care of milk, separating, testing, buttermaking, and the marketing of dairy products.

Quebec Provincial examinations will be set in milk and cream testing and milk analysis. Students passing these examinations will receive a provincial Milk Tester's certificate.

2nd Yr.:—2 lects., 2 labs., per wk., 2nd term. Mr. Cunningham.

ECONOMICS

7. Principles of Marketing and Co-operation. — Marketing methods, agencies and services. Cycles in production and prices. Collective bargaining. Co-operation and the pooling of farm products.

2nd Yr.:—3 lects., 1 lab., per wk., 1st term. Professor Lattimer.

8. Farm Organization and Management.—Specialization in farming. Adaptability of types of farming to various localities. The size of farms. Land values and farm wages.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Lattimer.

ENGLISH

The students will be divided into a Senior and a Junior Group according to their attainments in English Speech and Literature:—

2.

1st Yr.:—3 lects., per wk., 2 terms. Professor Avison.

7.

2nd Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison.

ENTOMOLOGY

3. An elementary treatment of the structure, habits, classification and control of insects.

1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Brittain and Dr. Morrison.

HORTICULTURE

4. General Horticulture.—A course dealing with the principles of farm horticulture, including the home garden, the propagation of plants, seed sowing, the improvement of the home surroundings, the farm orchard and horticultural cash crops for the farmer, such as potatoes, canning crops and some small fruits.
1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Murray and Staff.

6. Vegetable Gardening.—The production of vegetables with reference to climate, soils, fertilizers, seeds, spraying, harvesting, grading, packing, storage, marketing and canning, with practical instruction in the greenhouse and laboratory throughout the course.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Murray.

7. Ornamental Gardening.—Foundation planting; choice and care of ornamental trees, shrubs, vines, and flowers for the home grounds, and the making and care of lawns. Some instruction will be given in commercial floriculture.
2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Walker.

8. Fruit Growing.—A practical study of orchard and small fruit production, including propagation, soils, fertilizers, culture, and other related phases, including spraying, harvesting, marketing, and storage. One lecture per week during the second term will be used for complementary work on spray machinery, cold storage, by-products, etc.
2nd Yr.:—2 lects., 2 labs., per wk., 1st term.
3 lects., 2 labs., per wk., 2nd term. Mr. Nussey.

MATHEMATICS

1. A review of elementary arithmetic; decimals, percentage, ratio and proportion, mensuration and farm business accounting.
1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Heimpel. (Agricultural Engineering Department).

6. A continuation of course 1 with particular attention to areas and volumes as applied to contents of tanks, bins, hay stacks, silos and barn lofts.
2nd Yr.:—2 lects., per wk., 1st term. Professor Heimpel. (Agricultural Engineering Department).

PHYSICS

6. An elementary course dealing with the fundamental principles of Physics and their application in agricultural practice.
2nd Yr.:—1 lect., 2 labs., per wk., 1st term. Professor Oliver.

PLANT PATHOLOGY

6. Plant Diseases.—Studies of important plant diseases in horticultural crops, including losses, symptoms, cause and spread.
2nd Yr.:—(Fruit Farming Group):—2 lects., 1 lab., per wk., 2nd term.

POULTRY HUSBANDRY

1. Productive Poultry Husbandry.—The elements of poultry production and marketing applicable to general farm use. A study is made of the various breeds of chickens, ducks, geese, and turkeys and their general management through a complete production cycle.

1st Yr.:—2 lects., 1 lab., per wk., 2 terms. Mr. Nikolaiczuk.

6. Advanced Poultry Problems.—The economic significance of the various factors influencing production returns on the basis of poultry management.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Maw.

7. Poultry Breeding and Marketing Improvement.—A study of the basic factors in poultry breeding and product marketing in relation to the improvement policies of the industry. Elective.

2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Maw.

PROJECT

6. Second year students are required to submit a project in the form of an essay and a questionnaire to be handed in not later than March 15th.

The project work shall comprise the outlining of a farm enterprise together with the procedure to be followed in establishing and developing it. The farm may be owned or rented. Particulars must include a financial forecast, in detail, of yearly expenditures and returns for a period of five years as well as an estimate of the money required over and above what the farm may return.

Questionnaire forms having to do with finding farm facts will be distributed before the close of the first year. They must be filled in during the summer and submitted as a part of the project.

The project will rank as a subject with an allowance of 100 marks and will become the property of the College.

2nd Yr.:—The equivalent of 2 labs., per wk., 2 terms.

Supervising Committee:—Professor Hamilton (Chairman), Professors Lattimer, Heimpel and Lods.

Diploma Course Examinations

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. Examinations will be held at the end of the first term in all courses given and at the end of each course. The examiner will pass in to the Registrar the final mark giving the standing of each student in all the work of the course.

Students who obtain 75 per cent and over are placed in the first class; those who obtain 60 and less than 75 per cent, in the second class; and those who obtain 40 and less than 60 per cent, in the third class.

For purposes of evaluation, a full course shall be two lectures and two laboratory periods per week for one term or its equivalent and shall be rated at 100 marks. One lecture equals one laboratory period. More or less than full courses shall be rated proportionately. Students conditioned in papers of an aggregate value of 250 marks or less will be required to write supplemental examinations in those subjects. Students conditioned in papers having an aggregate value of more than 250 marks will be considered as having failed in the year's work.

Students who fail in the first year of the Diploma Course in Agriculture will not be permitted to repeat the year, except by special action of the Faculty of Agriculture.

A student who is allowed to repeat a year may, by special permission, be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed creditably and be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the time table.

For absences from classes, see page 898.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 898.

Regular Supplemental Examinations.—A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations will be held immediately preceding the opening of lectures in January, on a date or dates to be fixed; and following the sessional examinations in the spring.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjunction with the regular sessional examinations.

Special Supplemental Examinations.—Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, will be considered as special supplementals and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 902) at least three weeks before the examination begins. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject shall be granted marks higher than the required pass mark—i.e., 40%.

(c) ADVANCED DIPLOMA COURSE

Students who obtain at least high second-class standing in each year of the Diploma Course, may continue for a further year. For admission to the third year the candidate's application and schedule of courses and any revision thereof must receive the approval of the Faculty.

The course is intended for those who do not desire a degree but are anxious to extend their educational equipment beyond the two year course and to train themselves for the responsibilities of rural leadership. It is designed to permit those of good ability and some maturity to pursue a course where more emphasis is placed upon private study and individual effort than is possible during the first two years, when lectures and class-room exercises consume the bulk of the student's time.

During the session, which, for the Advanced Diploma Course, will date from the opening of the Degree Course, the student's time will be divided between assigned studies, projects, and departmental work. His curriculum will include reading, preparing reports, writing essays, and course work.

The course is not rigidly prescribed and is intended to be of a broad and general character. Nevertheless, it provides opportunity for the student to pay special attention to those phases of agriculture in which he is particularly interested. The courses taken will be selected from those listed below, but the student may be permitted to attend others which may be of value to him. The courses will be selected in consultation with the Chairman of the Diploma Course Committee.

At the end of his course of study, the student will submit himself to examinations in the individual courses taken when required, and to a series of comprehensive examinations in practical and scientific agriculture, written and oral, set by a Board of Examiners appointed for the purpose.

An Advanced Diploma in Agriculture may be awarded at the completion of the year's work or may be withheld until the student has demonstrated the necessary capacity in the work undertaken.

Only a limited number of students will be accepted each year.

Courses may be chosen from the following list, supplemented, if desired, by others approved by the Faculty:—

Agricultural Engineering:—31, 32, 33, and 34.

Agronomy:—31, 32, 33, 36, and 41.

Animal Husbandry:—30, 34, 35, 41, 45 and 46.

Botany:—30.

Comparative Physiology and Pathology:—30, 31, and 32.

Economics:—*20, 30, 31, and 32.
English:—*14, *24, and 40.
Entomology:—34.
Horticulture:—31, 33, 38, 39, and 40.
Plant Pathology:—31.
Poultry Husbandy:—31, 33, 35, and 38.

(d) B.Sc. (Agr.) COURSE

This is a four-year course leading to the degree of Bachelor of Science in Agriculture; the degree when abbreviated shall be designated B.Sc. (Agr.).

The curriculum is organized with equal standards and similar plans to those of the other faculties of the University. During the first two years the work undertaken is common to all students and is limited to subjects which are basic in the study of all branches of agriculture. In the third and fourth years the student may specialize in a single branch of agriculture, or he may choose a combination of related subjects. In either case the outline of work must offer a comprehensive training in the major work and cognate subjects.

Entrance

1. For General Requirements see page 910.

2. All candidates for admission to the four year course leading to the B.Sc. (Agr.) degree shall produce one of the certificates indicated below. With the modifications noted, this will apply also to all candidates for admission to the B.Sc. (H.Ec.) course.

a. Of having passed the Junior School Certificate examinations for entrance to the Faculty of Agriculture, which is held in June at McGill University and at other centres, and in September at McGill University only. All enquiries relating to such examination should be addressed to the Registrar, McGill University, Montreal, Que.

Every candidate must make application on a form which may be obtained from the Registrar's office, McGill University, Montreal. This application, with the proper fee, must reach the Registrar's office before 20th May for the June examination and before 20th August for the September examination. After these dates application may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications. The fee is $1.00 per paper with a minimum fee of $2.00 and a maximum fee of $10.00.

For the convenience of candidates in Great Britain who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each June. Full information regarding dates, fees, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C. 4.

*The courses marked with an asterisk are required and examinations must be taken in them.

Subjects required for matriculation into the Faculty of Agriculture are:

Group	No. of Papers	
1.	2	English.
2.	1	History.
3.	2	Latin *or* French *or* German *or* Spanish (French preferred).
4.	2	Elementary Mathematics.
5.	1	Physics or Chemistry or Biology.
		EITHER
6.	2	Latin or French or German or Spanish (if not already chosen):
		OR
		Any two of the following papers not already chosen:—
		a. Intermediate Algebra;
		b. Intermediate Geometry and Trigonometry;
		c. *Botany;
		*Biology;
		d. Chemistry;
		e. Physics;
		f. †Drawing;
		g. Geography;
		h. Music (B.Sc. (H.Ec.) candidates only. Music and Drawing may not both be chosen).
Total	10 papers.	

An examination in Zoology of other reputable universities or recognized public examining boards will be accepted as an alternative to Botany or Biology.

For complete matriculation a candidate must pass in every one of the above ten papers and obtain an average mark of at least 60% in the ten papers combined. A student, however, who fails in one or more of the papers may obtain matriculation standing provided (a) his average in the ten papers is not less than 65%, and (b) he has no mark in any of the ten papers below 40%.

Candidates for admission to the B.Sc. (Agr.) or B.Sc. (H.Ec.) Degree Course are expected to have complete matriculation, but may be permitted to enter as conditioned undergraduates provided they have not failed in papers of an aggregate of more than 200 marks.

Except by special action of the Faculty no student will be permitted to carry a matriculation condition into the second year.

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*Botany and Biology may not both be chosen.

†The High School Leaving Examination in Household Science will be accepted as an alternative to Music or Drawing for admission to the B.Sc. (H.Ec.) Course, provided the candidate secures an average of 67% in the nine other required papers.

b. The following certificates will be accepted in lieu of the Junior School Certificate examination for admission to the Faculty of Agriculture, provided that pass standing, according to the standards of the various examining bodies, is shown thereon in the subjects required in "a" above:

Province of Quebec:—
The High School Leaving Certificate.
The Catholic High School Leaving Certificate.

Province of Ontario:—
Middle School Certificate.

Province of New Brunswick:—
Junior Matriculation.

Province of Nova Scotia:—
Grade XI Certificate.

Province of Prince Edward Island:—
Second Year Certificate of Prince of Wales College.

Province of British Columbia:—
Junior Matriculation.

Province of Manitoba:—
Grade XI Certificate.

Provinces of Alberta and Saskatchewan:—
Grade XI Certificate.

Newfoundland:—
Junior Matriculation.

United States:—
Certificates granted by the College Entrance Examination Board.

c. Great Britain:—

The School Certificate of the recognized examining bodies with five credits.

The University of London Matriculation.

The Certificate of Fitness of the Scottish Universities Entrance Board.

d. Miscellaneous:—

Other certificates, such as those issued by reputable universities or recognized public examining boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

Intending students who wish to enter by certificate should under no circumstances come to the College without having obtained from the Registrar a statement of the value of the certificates they hold.

Students with incomplete requirements may obtain standing in subjects included in the McGill School Certificate by writing McGill examinations.

3. *Farm Experience.*—All candidates for the course leading to the B.Sc. (Agr.) degree should preferably have had at least five months' experience on an approved farm before admission. Students who cannot fulfil this requirement *must* submit satisfactory evidence of at least one season's experience on an approved farm before entering the second year of the course. NOTE:—College and experimental farms, while affording excellent opportunities in special lines of work, are not approved for purposes of general experience.

COURSE REQUIREMENTS

The requirements for graduation shall be:—

(a) Pass standing, in all courses outlined on page 945 for the first and second years, as stated on page 941.

(b) Pass standing in the third and fourth year courses equivalent to a minimum of 11 courses.

(c) Satisfactory distribution and concentration of courses:—See *Courses of Study* below.

(d) Satisfactory fulfilment of regulations concerning summer work for specialists.

EVALUATION OF COURSES

For the purposes of evaluation, a full course shall consist of three lectures per week throughout the year, and shall be rated at 150 marks. A two-hour laboratory period equals one lecture period. More or less than full courses shall be rated proportionately. Where the unit of instruction is considered to be a single period per week per term, six units would constitute a full course.

COURSES OF STUDY

Before entering upon the third year, students shall prepare, in consultation with the professors under whom major subjects are to be taken, summaries of courses to be taken in the third and fourth years, which shall include the equivalent of not less than 11 nor more than 12½ full courses (*i.e.*, from 66 to 75 units). Term schedules must be approved by the Faculty.

To satisfy the requirements for concentration of courses the student shall select one or two subjects in which most of his work shall be done.* If a single subject is chosen it shall be selected from Group I below, and all the required courses, as indicated in the syllabus (page 66) must be taken. If two subjects are chosen they shall be selected either (a) both from Group I or (b) one subject from Group I and one subject from Group II. In either case, not less than 3½ courses must be taken in each subject. The subjects shall be designated major subjects.

*Departments shall be at liberty to recommend their students to take courses in cognate departments as equivalent to courses in their own departments.

MAJOR SUBJECTS OFFERED

Group I	Group II
Agricultural Engineering	Bacteriology
Agronomy	Botany
Animal Husbandry	Economics
Chemistry	Parasitology
Entomology	
Horticulture	
Plant Pathology	
Poultry Husbandry	

In addition to the foregoing, courses are offered in General Agriculture and in General Biology, as follows:—

General Agriculture.—This provision is designed for students who do not care to follow one of the specialized courses offered but who wish to obtain a general training in agriculture together with the basic sciences. It offers the type of training asked for by those wishing to farm, to do extension work or enter the commercial field. It is arranged to meet the requirements of students who wish to give special attention to combinations of subjects which are not provided for otherwise. Though planned as a general course, it provides the possibility of pursuing graduate studies.

The courses that may be selected are listed in the syllabus, pages 946 to 950, under the column headed Gen. Agr.; the numbers 1 and 2 therein relate to the groups referred to below.

For the third and fourth years, all the courses in Group I shall be taken, except that either Animal Physiology or Plant Physiology will be accepted. Four full courses shall be taken from Group 2; of these, one full course must be chosen from each of three departments. The balance of the courses taken to make up the required number may be selected from any course listed in the announcement, provided it is approved by the committee in charge and by the Faculty.

The total number of courses taken in the third and fourth years must not be less than 11 and not more than $12\frac{1}{2}$.

General Biology.—This provision is designed for students who do not desire to take one of the more rigid professional courses during their undergraduate years, but rather to select courses which will serve as a foundation to later specialization in one of the fields of Applied Biology as it relates to agriculture.

The courses that may be selected are listed in the syllabus, pages 946 to 950, under the column headed Gen. Biol.; the numbers 1 and 2 therein relate to the groups referred to below.

For the third and fourth years, all courses in Group I shall be taken, except that either Animal Physiology or Plant Physiology will be accepted and that either Zoological Technique or Botanical Technique may be taken. Four full courses shall be taken from Group 2. The balance of the courses taken to make up the required number may be selected from any course listed in the announcement, provided it is approved by the committee in charge and the Faculty.

The total number of courses taken in the third and fourth years must not be less than 11 and not more than $12\frac{1}{2}$.

Summer Work Requirements

Students majoring in Agronomy will be required to spend one summer in the Agronomy Department at the College, or at some other approved college or experimental farm. This may be between the second and third, or third and fourth years. Arrangements will be made during this time to put the student in touch with each of the phases of the department's work.

Students majoring in Animal Husbandy will be required to work for a summer on a farm approved by the Animal Husbandry Department.

Students majoring in Horticulture will be required to work for a summer on a vegetable farm, fruit farm, a nursery or in a green house.

Students majoring in Entomology or Plant Pathology will be required to spend one summer in field or laboratory work, either at the College immediately under the direction of the department concerned, in one of the Government laboratories, or in some other place approved by the department concerned.

Students majoring in Poultry Husbandry will be required to work for a summer on a poultry farm approved by the Poultry Husbandry Department.

Summer Work for B.Sc. (Agr.) Students

A certain number of students who have completed at least one session in the B.Sc. (Agr.) course, may be employed during the spring and summer months to assist in the work of the various departments of the College. Such students will be paid according to the character and quantity of their work and, whilst in residence, will have to conform to the usual regulations. No other students may remain in residence without special permission from the Dean.

DESCRIPTION OF COURSES

DEPARTMENT OF AGRICULTURAL ENGINEERING

Associate Professor:—L. G. Heimpel

Lecturer:—J. H. Cooper

31. Farm Buildings.—Requirements, design and construction of various farm buildings, insulation, heat loss, ventilation and sanitation. Prerequisite, Agr. Eng. 35A and 37.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professor Heimpel. Text Book:—Foster and Carter—Farm Buildings.

32. Spraying and Dusting Equipment.—A laboratory study of high pressure pumps, dusting machines, spray guns and other equipment. *3rd+4th Yrs.:—2 labs., per wk., 2nd term. Given in 1945-46. Mr. Cooper.*

33. Farm Machinery.—A study of tillage, harvesting and crop processing machinery. Field tests, dynamometer studies, hitches and eveners.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1944-45. Mr. Cooper. Text Book:—Smith—Farm Machinery and Equipment.

34. Farm Power Machinery.—A study of internal combustion engines, tractors, and types of electric motors for farm work; power transmission.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1945-46. Mr. Cooper. Text Book:—Jones—Farm Gas Engines and Tractors.

35. Agricultural Drafting.

A. The use of drawing instruments, projection, elementary architectural drawing. B. Perspective, architectural and machine drawing. *3rd Yr.:—3 labs., per wk., 2 terms. Mr. Cooper.*

36. Projects.

4th Yr.:—Either term. Credit—one-half course. Professor Heimpel.

37. Applied Mechanics.—Resolution and composition of force systems; force polygons; centres of gravity; reactions and stresses in simple structures.

3rd Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Cooper. Text Book:—Poorman—Applied Mechanics.

38. Shopwork.—Hand and power equipment in woodworking; structural joints and fastenings. Identification of iron and steel; forging; welding and tempering. Ropework and belting.

3rd+4th Yrs.:—1 lect., 2 labs., per wk., 2 terms. Given in 1944-45. Mr. Cooper and Prof. Heimpel.

39. Engineering for Land Development.—Part I. Methods of land surveying applicable to agriculture, including area surveys, levelling, mapping and making of drainage profiles: land drainage. Part II. Engineering aspects of erosion control, irrigation and land clearing. Prerequisite, Part I. Course value, 4 units. Non-specialists may elect Part I only if desired.

3rd+4th Yrs.:—Part I, 2 lects., 1 lab., per wk., 1st term and 5 days of field work prior to opening date of session. Part II, 2 lects., per wk., 2nd term. Given in 1945-46. Prof. Heimpel. Text Book:—Ayres and Scoates—Land Drainage and Reclamation.

AGRICULTURE

Offered jointly by the departments of Agricultural Engineering, Agronomy, Animal Husbandry, Horticulture and Poultry Husbandry. Students must pass in each term's work in these courses.

10. Agriculture.—An orientation course giving the student an opportunity to obtain a general view of agriculture, and some idea of the nature and problems of the various branches to each other and to the sciences.

1st Yr.:—2 lects., 1 lab., per wk., 2 terms. 1st term, Animal Husbandry; 2nd term, Agronomy. Professors Ness, Summerby, and staffs.

20. Agriculture.—In continuation of Course 10.

2nd Yr.:—2 lects., 1 lab., per wk., 2 terms. 1st term, Horticulture; 2nd term, Poultry Husbandry and Agricultural Engineering. Professors Murray, Maw, Heimpel and staffs.

DEPARTMENT OF AGRONOMY

Professor:—Robert Summerby

Associate Professor:—L. C. Raymond

Assistant Professor:—E. A. Lods

Lecturer:—J. Norman Bird

31. Cereal Crops.—An intensive study of cereal crops; production, marketing, uses, types, varieties, strains, commercial and seed grades.

3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Lods.

32. Hay and Pasture Crops.—Similar to Cereal Crops.

4th Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Bird.

33. Roots, Corn and other Silage Crops.—Similar to Cereal Crops.

3rd+4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1945-46. Professor Raymond.

34. Experimentation.—A study of factors involved, statistical methods, designs of experiments and interpretation of results.

3rd or 4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Summerby.

35. Plant Breeding.—Problems, methods and the interpretation of results, in the breeding of field crops. Prerequisite:—Genetics 30, and Botany 33 or one Crops Course.

4th Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Raymond.

36. Crop Adaptation and Distribution.—Factors influencing crop adaptation and their effect on distribution. Agronomic organizations.

3rd Yr.:—2 lects., 1 lab., per wk., 1st term. Mr. Bird.

38. Soil Management.—An analysis of factors influencing soil productivity and their control. Prerequisite:—Chemistry 33 and Physics 36.

4th Yr.:—2 lects., per wk., 2nd term. Mr. Bird.

42. Projects.

4th Yr.:—2 labs., per wk., either term. Professor Summerby and Staff.

43. Field Crop Production.—Designed for students other than specialists in Agronomy. A. Soil and crop relations, cropping plans, weed control, seed, and other considerations applying to all crops. B. A. study of field crops. (Prerequisite 43 A).

Agron. 31, 32, or 33 may be substituted for Agron, 43 B.

3rd or 4th Yr.:—2 lects., 1 lab., per wk., 2 terms. Professor Summerby and staff.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor:—A. R. Ness
Professor:—Earle W. Crampton
Assistant Professor:—Lionel H. Hamilton
Lecturer:—C. A. V. Barker
Instructor:—H. W. Cunningham
Assistant in Animal Nutrition:—G. C. Ashton

30. Swine Production.—Care, feed, and management of swine. Special problems of bacon hog production. Swine experimentation and interpretation of results.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professor Hamilton.

34. Dairy Cattle Production.—The production of dairy cattle, with special reference to the problems of the dairy cattle industry; care and management of dairy cattle; dairy cattle organizations and dairy cattle experimentation.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1945-46. Professor Ness.

35. Live Stock Judging.—Principles and practice in judging farm livestock. Market and breed types. Show-ring judging. This course includes visits to various farms, breeding establishments, and live stock shows.

3rd+4th Yrs.:—3 labs., per wk., 1st term. Given in 1944-45. Professors Ness and Hamilton.

36. Breed History and Pedigree Study.—The history and development of several breeds of live stock.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professors Ness, Crampton and Hamilton.

38. Animal Breeding.—Genetics in relation to breeding. Prerequisite:—Genetics 30.

3rd+4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1944-45. Professor Crampton.

41. Horses, Sheep and Beef Cattle.—A course covering the important features of the production of these classes of stock in Canada.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1945-46. Professor Hamilton.

42. Projects.

3rd or 4th Yr.:—Either term. Credit—one-half course. Professor Ness and Staff.

45. Fundamentals of Nutrition:

Part I.—The composition of the animal body and of its food; properties and physiological roles of the several nutrients essential for the nutritional well-being of the animal; nutritional balances; requirements for maintenance, growth, lactation.

Part II.—Methods of quantitative determination of nutritive values of foods and of requirements of the body: digestion trials, vitamin assay, O_2 consumption and calculation of caloric requirements; comparative feeding trials; elementary analysis and interpretation of data from nutrition studies.

4th Yr.:—Part I, 3 lects., per wk., 1st term.
Part II., 1 lect., 2 labs., per wk., 2nd term.
Professor Crampton, Mr. Ashton.

Note: Students to whom the course is elective may take Part I only by permission.

46. Livestock Feedingstuffs.—A study of the chemical and physical properties of common livestock feeds and their nutritive values as used in rations. The use of feeding standards.

4th Yr.:—1 lect., per wk., 2nd term. Professor Crampton.

DEPARTMENT OF BACTERIOLOGY

Associate Professor:—P. H. H. Gray

Assistant Professor:—F. S. Thatcher

30. General Microbiology.—This course is a prerequisite to the courses listed below.

3rd or 4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Gray.
Text Book:—Frobisher—Fundamentals of Bacteriology.

32. Soil Microbiology.

4th Yr.:—2 lects., 2 labs., per wk., 1st term. Professor Gray.

33. Laboratory Methods.

4th Yr.:—1 lect., 3 labs., per wk., 1st term. Professor Gray.

34. Food Microbiology.

3rd or 4th Yr.:—1 lect., 2 labs., per wk., 2nd term. Professor Thatcher.

35. Dairy Bacteriology.

4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Gray.

36. Projects.

4th Yr.:—3 labs., per wk., 2 terms. Staff.

37. Seminar.

4th Yr.:—1 hour per wk., 2 terms. Staff.

38. Physiology of Micro-organisms.

3rd or 4th Yr.:—1 lect., 3 labs., per wk., 2nd term. Professor Thatcher.

Students majoring in Bacteriology with one other subject are required to take all of the above courses.

BOTANY

10. Introductory Botany.—A study of the flowering plant as a living organism with fundamentals of structure, physiology and reproduction, and an introduction to the general morphology of plants involving consideration of representative types of the several groups of the plant kingdom.

1st Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson. (Department of Plant Pathology).

30. Plant Physiology.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1945-46. Professor Scarth (Faculty of Arts and Science).

31. Histology and Cytology.—A detailed study of cells, cell division, tissues and their development, etc.

3rd Yr.:—2 lects., 1 lab., per wk., 2nd term. Mr. Ludwig.

32. Plant Morphology.
3rd Yr.:—1 lect., 2 labs., per wk., 1st term. Mr. Ludwig.

33. Systematic Botany.
3rd+4th Yrs.:—3 labs., per wk., 2nd term. Given in 1944-45. Mr. Dansereau.

34. Histological Technique.—The preparation for the microscope of permanent stained mounts of at least twelve separate items. See Plant Pathology 30.
3rd Yr.:—1 lect., 1 lab., per wk., 1st term. Professor Coulson and Mr. Ludwig.

DEPARTMENT OF CHEMISTRY

Professor . . . . . W. D. McFarlane
Associate Professor . . . . . W. A. DeLong
Assistant Professor . . . . . G. H. Benham
Demonstrator . . . . . J. A. Nelson
Research Fellow . . . . . M. Michaelis
Research Associate . . . . . D. Siminovitch

10. Inorganic Chemistry.
1st Yr.:—3 lects., 2 labs., per wk., 2 terms. Professor Benham.
Text Book:—Deming—Fundamental Chemistry (Wiley).

20. Organic Chemistry.
2nd Yr.:—3 lects., 2 labs, per wk., 2 terms. Professor Benham.
Text book:—Lowry and Harrow, Introduction to Organic Chemistry (Wiley).

30. Analytical Chemistry.
3rd Yr.:—2 lects., 4 labs, per wk., 2 terms. 1st term, Qualitative. 2nd term, Quantitative. Professor DeLong.

31. Organic Chemistry.—Preparations.
3rd Yr.:—2 labs, per wk., 2nd term. Professor DeLong.
Text book:—Robertson—Laboratory Practice of Organic Chemistry (Macmillan).

32. General Biochemistry.—Chemistry of the carbohydrates, lipides, amino-acids and proteins. Physico-chemical properties of proteins.
3rd or 4th Yr.:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.
Text books:—Bodansky—Introduction to Physiological Chemistry (Wiley); Dutcher and Haley—Agricultural Biochemistry (Wiley).

33. Soils:—Soil Chemistry.—Joint course with Physics 36. Prerequisite:—Chemistry 42. Characteristics of the major soil groups; fundamental relations of the composition and properties of soil to soil fertility.
4th Yr.:—2 lects., 1 lab., per wk., 1st term. Professor DeLong.
Text book:—Robinson—Soils—their Origin, Constitution and Classification (Murby).

39. Physical Chemistry.

3rd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Benham.

Text book:—Daniels, Mathews and Williams—Experimental Physical Chemistry (McGraw-Hill).

40. Assigned Projects.

4th Yr.:—3 labs., per wk., 2 terms. Professor McFarlane and Staff.

41. Seminar.

4th Yr.:—1 lect., per wk., 2 terms. Professor McFarlane and Staff.

42. Geology:—Relation of geological phenomena to the origin and characteristics of soils.

3rd Yr.:—2 lects., per wk., 2nd term. Professor DeLong.

47. Physiological Chemistry.—Prerequisites:—Chemistry 32 and Physics 33. Classification and properties of enzymes; digestion; composition and properties of blood and bile, gaseous exchange and acid base equilibrium, matabolism of nutrients and tissue respiration, urine.

Laboratory work parallels the lecture course and includes blood and urine analysis.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

Text Books:—Bodansky—Introduction to Physiological Chemistry (Wiley); Hawk and Bergeim—Practical Physiological Chemistry (Blakiston).

48. Plant Biochemistry.—Prerequisites:—Chemistry 32 and Physics 33. Chemistry of plant nutrition with particular reference to the inorganic elements and inter-relations in the metabolism of inorganic and organic substances.

4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professor DeLong.

Text books:—Onslow—Principles of Plant Biochemistry (Cambridge Univ. Press); Dutcher and Haley)—Agricultural Biochemistry (Wiley).

50. Textile Chemistry.—See page 958.

51. Food Chemistry.—Food laws; composition of foods; principles of food analysis, including the determination of vitamins; special considerations in regard to the composition and analysis of milk and its products.

4th Yr.:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

52. Advanced Food Analysis.—A specialized course including the determination of minor elements, amino acids and vitamins; control-analysis in food processing, e.g., meat packing, grain milling, dairy and fruit and vegetable dehydration industries.

4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

COMPARATIVE PHYSIOLOGY AND PATHOLOGY

30. Elementary Physiology.

3rd Yr.:—3 lects., per wk., 2nd term. Mr. Barker (Department of Animal Husbandry).

31. Disease Prevention.—Sanitation and hygiene in the prevention of diseases and parasites infesting domestic animals. Prerequisite:—Course 30.

4th Yr.:—3 lects., per wk., 1st term. Mr. Barker.

32. Poultry Diseases.—Autopsies, laboratory work and demonstrations. Prerequisite courses:—Zoology, 31, Bacteriology 30.

3rd+4th Yrs.:—2 labs., per wk., 2nd term. Given in 1944-45. Mr. Barker.

33. Microbial Diseases of Animals and Those Transmissible to Man.—Prerequisite:—Bacteriology 30.

4th Yr.:—2 lects., 1 lab., per wk., 2nd term. Mr. Barker.

DAIRYING

30. The Dairy Industry; its importance in Canadian agriculture, the relative importance of the various products, and an analysis of the trade. The farm dairy and its equipment. The composition, quality, value, care, and sale of milk and cream. Quality and defects in butter, cheese and other dairy products. Instruction in testing, separating, butter-making and cheesemaking.

3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Mr. Cunningham (Department of Animal Husbandry).

DEPARTMENT OF ECONOMICS

Professor:—J. E. Lattimer

20. Elementary Principles.

2nd Yr.:—3 lects., per wk., 2nd term.

30. Principles of Marketing and Co-operation.—The problem of marketing. Services, agencies and methods. Possibilities of co-operation.

3rd+4th Yrs.:—3 lects., per wk., 2nd term. Given in 1944-45.

31. Economics of Agriculture.—Problems of the industry including trade, tariffs, transportation, planned production, land tenure, farm credit and taxation.

3rd+4th Yrs.:—3 lects., per wk., 2nd term. Given in 1945-46.

32. Farm Organization and Management.—Types of farming, size of business. Administration and efficiency. Records and accounts. *3rd+4th Yrs.:—3 lects., per wk., 1st term. Given in 1944-45.*

33. Principles of Economic Theory.—A continuation of course 20 (prerequisite). Historical development of economic theory. Source and character of contribution. Recent refinements. Public regulation of business.

3rd+4th Yrs.:—3 lects., per wk., 1st term. Given in 1945-46.

34. Projects.

3rd or 4th Yrs.:—Minimum of 2 labs., per wk., 1 term (either).

See note concerning graduate work on page 943.

DEPARTMENT OF ENGLISH

Assistant Professor:—J. M. Paton

Assistant Professor:—H. R. C. Avison

14. English Composition.—Instruction and practice in the elements of good speech and good writing; 1 lecture period per week, conference hours and written themes to the equivalent of 1 lab. period per week—2 terms. A student failing in the year's work will be required to repeat this course until the necessary standard has been attained.

1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison.

15. English Literature.—General course from Anglo-Saxon times to about 1750, conducted by lecture and seminar.

1st Yr.:—2 lects., per wk., 2 terms. Professor Avison.

24. English Literature.—A continuation and extension of course 15 down to the present century; conducted by lecture and seminar.

2nd Yr.:—1 lect., per wk., 1st term, 2 lects., per wk., 2nd term. Professor Paton.

40. Public Speaking and Journalism.—A course for students who wish to learn how to speak with ease in public and how to write acceptable articles for the periodicals and scientific journals. It is intended that this course should run parallel with that in Extension Methods 30, but it may also be taken by students who have displayed the necessary aptitude for it.

3rd+4th Yrs.:—1 lect., per wk., 2 terms. Professors Avison and Paton.

41. The Literature of Utopia.—A reading and discussion course in modern world problems, approached from the point of view of past experience as reflected in our literature. A list of topics and readings from Plato to the present day will be provided at the opening of the course, which will be conducted by lecture and seminar.

3rd+4th Yrs.:—2 lects., per wk., 2 terms. Professors Paton and Avison.

EXTENSION METHODS

30. Extension Methods.—Study group technique; extension methods in agriculture, household science; rural sociology.

Laboratory work will comprise participation in debates, conduct of public meetings, and similar activities, and the operation of the Rural Problems Club, which will meet weekly from November 1st to March 31st. Membership in the Club will be open to all students in Agriculture, Household Science and the School for Teachers. Students who elect this course will also be required to take English 40.

3rd or 4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison and Committee.

DEPARTMENT OF ENTOMOLOGY

Professor:—W. H. Brittain

Associate Professor:—E. Melville DuPorte

Assistant Professor:—F. O. Morrison

Lecturer:—W. E. Whitehead

30. Insect Morphology.

3rd Yr.:—2 lects. 2 labs., per wk., 2 terms. Professor DuPorte.

32. Entomological Technique.—Prerequisite:—Zoology 32.

3rd Yr.:—1 lect., 2 labs., per wk., 2nd term. Mr. Whitehead.

33. Economic Entomology.—The principles and practice of Applied Entomology from a professional standpoint, including a survey of the Class *Hexapoda* with special reference to biological and economic aspects. A representative collection of economic insects including at least 50 adults, 20 larvae and five complete life history sets will be required of all students taking this course.

4th Yr.:—2 lects., 2 labs., per wk., 2 terms. Professors Brittain and Morrison.

34. General and Economic Entomology.—A more elementary course similar to the foregoing, but suited to the general student. A collection of 25 adult insects, 10 larvæ and one complete life history set, representative of common economic insects, will be required of each student taking the course.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1945-46. Alternates with Plant Pathology 31. Professors Brittain and Morrison.

35. Systematic Entomology.—The classification of the principal groups of insects. *Each student will be asked to choose a special group for more detailed study and to bring to the class an original collection in that group.* Prerequisite:—Entomology 30.

4th Yr.:—2 lects., 2 labs., per wk., 2 terms. Mr. Whitehead.

36. Insect Ecology.—The influence of the environment on the development, activities, distribution and abundance of insects.

3rd+4th Yrs.:—2 lects., per wk., 1st term. Given in 1945-46. Professor DuPorte.

37. Seminar.—Presentation and discussion of reports on:—(1) Assigned topics; (2) Recent work in Entomology and Zoology; (3) Original investigation.

3rd Yr., 4th Yr. (both):—1 lab., per wk., 2 terms. Professors Brittain and DuPorte.

38. Projects.—One or more problems entailing private investigation will be allotted to each student at the beginning of his third year. The work done should be equivalent to

3rd or 4th Yr.:—2 labs., per wk., 2 terms. Staff.

39. Economic Entomology.—A laboratory course supplemental to Course 33, open only to students who are majoring in Entomology and have received the permission of the department.

4th Yr.:—1 lab., per wk., 2 terms. Professor Brittain.

GENETICS

30. Elementary Genetics.—The modern conception of inheritance. Laboratory work with corn and with the fruit-fly, *Drosophila melanogaster*. *3rd or 4th Yr.:—3 lects., 2 labs., per wk., 1st term. Professor Raymond (Agronomy Department).*

31. Advanced Cytogenetics.—Prerequisite, Course 30. Given in alternate years at Macdonald College and in the Department of Genetics, McGill University. (Faculty of Arts and Science, Genetics Course 3). At Macdonald College 1945-46.

4th Yr.:—3 lects., per wk., 2 terms (Wednesday afternoons 2-5). Professor Huskins (Faculty of Arts and Science), Professors Summerby, Crampton, Raymond, Lods, Murray.

DEPARTMENT OF HORTICULTURE

Associate Professor:—H. R. Murray

Lecturer:—A. N. Nussey

Instructor:—A. H. Walker

31. Vegetable Crops.—The principles of vegetable growing including economic importance, geography, types and varieties, cultural requirements, harvesting, grading, marketing and storage as applied to the important crop plants.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2 terms, and 4 days prior to the opening date of the College session for the examination of material in the fields Given in 1945-46. Professor Murray.

32. Landscape Architecture.—History and development of landscape gardening. Description, characteristics, and identification of ornamental plants, propagation, nursery practices, and care of plant material; landscape plans, sketches, designs, drafting and specifications, as applied to rural and urban homes, estates, parks, playgrounds, etc.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1945-46. Mr. Walker.

35. Floriculture.—History, development, varieties, propagation and culture of flowers, with consideration of harvesting, grading, packing, storage and marketing. Decoration, floral designs, arrangment of baskets, bouquets and designs, table and house decoration. Trips to greenhouse establishments.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Mr. Walker.

36. Plant Breeding.—A study of the principles of genetics as applied to the breeding and improvement of horticultural crop plants. The development of breeding methods for different types of plants will be given special consideration. Lectures will be supplemented by practice periods in the greenhouse. Prerequisite:—Genetics 30 and permission to register. *4th Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Murray.*

37. Seminar.—Presentation and discussion of reports on assigned topics, recent work and developments in horticulture and reports on the original investigations of the students and staff.

4th Yr.:—1 period per wk., 2 terms. Professor Murray and Staff.

38. Pomology (Orchard Fruits).—The fundamentals of orchard fruit propagation, production and marketing, with visits to orchards, markets, and cold storage establishments.

3rd+4th Yr.:—1 lect., 1 lab., per wk., 2 terms and 4 days prior to the opening date of the College session for the examination of material in the orchards. Given in 1944-45. Mr. Nussey.

39. Pomology (Small Fruits).—The fundamentals of small fruit propagation, production and marketing, with visits to producing areas and marketing establishments.

3rd+4th Yr.:—1 lect., 1 lab., per wk., 2 terms and 4 days prior to the opening date of the College session for field examination of material. Given in 1944-45. Mr. Nussey.

40. Horticultural Crops.—A course dealing with the more important branches of horticulture, designed for students other than horticulture specialists.

a. A study of tree and bush fruits with attention to improving the home surroundings.

b. A study of potatoes as a cash crop, canning and other special crops and the farm garden.

Under special conditions either A or B may be taken by permission.

3rd or 4th Yrs.:—2 lects., 1 lab., per wk., 2 terms. Professor Murray and staff.

41. PROJECTS.

4th Yr.:—2 labs., per wk., either term.

MATHEMATICS

10. ELEMENTARY MATHEMATICAL ANALYSIS.—An introduction to functions and their graphical representation; solution of equations; logarithms; trigonometry; binomial theorem; compound interest; permutations, combinations and probability.

1st Yr.:—3 lects., per wk., 2 terms.

20. CALCULUS.—Analytical geometry, differential and integral calculus.

2nd Yr.:—3 lects., per wk., 2 terms. Professor Rowles (Department of Physics).

30. ELEMENTARY DIFFERENTIAL EQUATIONS.—An introduction to differential equations with selected applications in physical, chemical and biological science.

3rd Yr.:—1 lect., per wk., 2 terms. Professor Oliver (Department of Physics).

PARASITOLOGY

34. SEMINAR.

3rd and 4th Yrs.:—1 lab., per wk., 2 terms. Professors DuPorte and Cameron.

Students will attend the combined Entomology-Parasitology Seminar.

35. PROJECTS.—A problem may be selected in Protozoology, Medical Entomology or Helminthology. The object of the problem is to enable the student:—(1) To do more intensive work in some selected field; (2) To obtain an introduction to the methods of scientific research.

4th Yr.:—3 labs., per wk., 2nd term. Professors Cameron and DuPorte.

36. PROTOZOOLOGY.—A morphological, biological and systematic study of protozoa with special reference to the parasites of domestic animals. Protozoological technique.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1944-45. Professor DuPorte (Department of Entomology).

37. MEDICAL ENTOMOLOGY.—A systematic and biological study of insects concerned in the causation of disease in man and domestic animals. Prerequisite:—Entomology 30.

3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1944-45. Professor DuPorte (Department of Entomology).

38. HELMINTHOLOGY.—A morphological, biological and systematic study of the helminths with special reference to the parasites of domestic animals. Helminthological technique.
3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2nd term. Given in 1945-46. Professor Cameron (Institute of Parasitology).

DEPARTMENT OF PHYSICS

Associate Professor:—W. Rowles
Assistant Professor:—W. F. Oliver

12. GENERAL PHYSICS.—An elementary course dealing with the subject chiefly from the experimental side, with selected problems based on the fundamental principles. The course is designed to familiarize the students with the more important laws of physics and to furnish the necessary basis for later work.
1st Yr.:—3 lects., 1 lab., per wk., 2 terms. Professor Rowles.

22. GENERAL PHYSICS.—A continuation course which covers the same ground as Physics 12, but with more intensive treatment. Certain topics will receive special emphasis and additional phases of the subject will be considered.
2nd Yr.:—3 lects., 1 lab., per wk., 2 terms. Professor Oliver.

32. METEOROLOGY.—A study of the factors which condition climate and weather, etc.
3rd+4th Yrs.:—1 lect., per wk., 2nd term. Given in 1944-45. Professor Rowles.

33. BIOPHYSICS.—(Prerequisite to Chemistry 47 and 48). A study of the gas laws; osmosis; surface phenomena; electrolytic dissociation; pH; colloidal state; X-rays in biology, etc.
3rd Yr.:—2 lects., 2 labs., per wk., 1st term. Professor Rowles.

36. SOILS—SOIL PHYSICS.—A joint course with Chemistry 33. Soil texture as determined by mechanical analysis; soil moisture and its movement; soil constants and their measurement; physical properties of colloids and their effects on soil behaviour; dynamometer studies in relation to physical properties of soil, etc.
4th Yr.:—1 lect., 1 lab., per wk., 1st term. Professor Rowles.

38. MOLECULAR AND ATOMIC PHYSICS.—A discussion of kinetic theory including Maxwell's distribution law; the laws of thermodynamics; atomic structure; charge on the electron; isotopes; circular orbit theory for hydrogen; vacuum tubes; X-rays and crystal structure; radioactivity, etc.
4th Yr.:—2 lects., per wk., 2 terms. Professor Oliver.

DEPARTMENT OF PLANT PATHOLOGY

Associate Professor:—John G. Coulson
Assistant Professor:—To be appointed
Lecturer:—R. A. Ludwig
Sessional Lecturer:—P. Dansereau

30. TECHNIQUE.—The preparation and standardization of media. Inoculation methods, etc., Photomicrography and the optical equipment necessary.

Students taking the Plant Pathology Option will be required to take that part of course Zoology 32 dealing with illustrations. Graduate students may take this work without credit.
3rd Yr.:—1 lect., 1 lab., per wk., 2nd term. Professor Coulson and Mr. Ludwig.

31. Diseases of Plants.—A study of the common diseases and their control. Use of spray calendars. Preparation of fungicides, etc.
3rd+4th Yrs.:—2 lects., 2 labs., per wk., 1st term. Given in 1944-45. Alternates with Entomology 34. Professor Coulson.

32. Plant Pathology.—Detailed studies of plant diseases; distribution, economic importance, symptons, cause and control.

Myxomycetous, phycomycetous, ascomycetous and non-parasitic diseases.
3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor Coulson.

33. Mycology.—A study of fungi as concerning taxonomy, morphology, sexuality, etc.
4th Yr.:—2 lects., 2 labs., per wk., 2 terms.

34. Projects.—One or more problems entailing private investigation will be allotted each student.
4th Yr.:—Minimum of 2 labs., per wk., 2 terms. Professor Coulson and Staff.

35. Seminar.—A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of General Botany, Physiology, Cytology, Histology, Morphology, Ecology, Taxonomy, Genetics, Mycology, Pathology. Attention will be more especially directed to such articles as have application in Plant Pathology or Mycology.
4th Yr.:—1 period per wk., 2 terms. Professor Coulson and Staff.

36. Plant Pathology.—Detailed studies of plant diseases; distribution, economic importance, symptoms, cause and control.

Basidiomycetous, fungi imperfecti, bacterial and virus diseases.
4th Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson.

Note:—12 laboratory periods on bacterial diseases of plants are to be taken in the Department of Bacteriology.

DEPARTMENT OF POULTRY HUSBANDRY

Associate Professor:—W. A. Maw

Assistant Professor:—N. Nikolaiczuk

31. History of Breeds and Judging.—The origin, domestication and development of the various breeds of chickens, turkeys, ducks and geese. Advanced practice in judging on the basis of type and colour standards.

3rd+4th Yrs.:—1 lect., 2 labs., per wk., 1st term. Given in 1945-46. Professor Maw.

33. General Poultry Husbandry.—The general principles and practice of poultry production and marketing. Elective for poultry specialists.

3rd Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Nikolaiczuk.

34. Breeding Principles.—The fundamental principles underlying poultry breeding. Prerequisites:—Genetics 30; Poultry Husbandry 31 and 33.

3rd+4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1945-46. Professor Maw.

35. Poultry Farm Management.—Poultry farming as a business; size of business, economic aspects of capital and labour involved; farm layout and buildings; arrangement; equipment, inventories, cost accounts and other records. Prerequisite:—Poultry Husbandry 33.

4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Maw.

36. Research.—A study of method in conducting experiments and analysis of data. Prerequisite:—Poultry Husbandry 33.

4th Yr.:—1 lect., 2 labs., per wk., 2 terms. Professors Maw and Nikolaiczuk.

37. Assigned Projects.

3rd Yr.:—2 labs., per wk., 2nd term.

4th Yr.:—3 labs., per wk., 2 terms. Professors Maw and Nikolaiczuk.

38. Poultry Nutrition.—Prerequisite:—Poultry Husbandry 33.

3rd+4th Yrs.:—2 lects., 1 lab., per wk., 2nd term. Given in 1945-46. Professor Nikolaiczuk.

SOCIOLOGY

40. Modern Communities.—A study of typical modern communities in rural and urban areas; the relations of rural and urban communities as indicated by the spread of urbanization; present-day trends in the social and economic organization of rural and urban communities; present-day community problems. Elective.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1945-46. Hours to be arranged. Professor Dawson (Faculty of Arts and Science).

41. The Modern Family.—The social and economic backgrounds of the modern family; the varied marriage systems in different parts of the world; modern trends in family standards of living; forces making for social change and readjustment of the family in North America; factors making for future family stability. Elective.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1944-45. Hours to be arranged. Professor Dawson.

ZOOLOGY

20. Elementary Zoology.—An introduction to animal structure, physiology and classification. Representatives of the chief phyla are studied and used to introduce some of the general principles of Zoology.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Mr. Whitehead and Dr. Morrison (Department of Entomology).

31. Comparative Vertebrate Anatomy.
3rd+4th Yrs.:—2 lects., 2 labs., per wk., 2 terms. Given in 1945-46. Professor Du Porte and Mr. Whitehead (Department of Entomology).

32. Histological Technique.—The preparation of histological slides and the technique of making scientific drawings.

Students taking the Entomology Option will be required to take that part of the course Plant Pathology 30 which deals with photography and the use of the microscope. Graduate students may take this work without credit.
3rd Yr.:—1 lect., 2 labs., per wk., 1st term. Mr. Whitehead (Department of Entomology).

B.Sc. (AGR.) AND B.Sc. (H.Ec.) COURSES
EXAMINATIONS

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. First and second year examinations will be held at the end of the first term in all courses. In all years examinations will be held at the conclusion of each course, at which time the examiner will pass in to the Registrar a mark giving the final standing of each student in all the work of the course.

First year students who obtain an average of less than 40 per cent in the first term examinations will not be permitted to continue with the work of the second term.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 898.

Students who are allowed to repeat a year do so on probation. Students whose work or conduct during the year proves unsatisfactory may also be placed on probation involving loss of certain privileges. The type of probation will vary with individual cases.

Pass Mark and Classes

The pass mark in all examinations is 50 per cent.

In the first and second years, 80 per cent and over is first class standing; 65 to 79 per cent, second class; 50 to 64 per cent, third class or pass.

Advancement from Year to Year

In the first and second years, any student who fails in courses of the year's work to an aggregate value of more than 450 marks will be required to repeat the year. Any student who fails in courses of the year's work to an aggregate value of 450 marks or less may write supplemental examinations in all failed courses the following September. However, a student who fails in English 14 (Composition) will be required to repeat the course until the necessary standard has been attained.

No student may enter the second year carrying a condition in more than one subject of first year work, and no student may enter the third year carrying a condition in more than one subject of second year work.

No student may enter the third year with any subject outstanding from his first year, and no student may enter the fourth year with any subject outstanding from his second year.

Any student who, after the final spring examinations of the third year, has failed to obtain an average of at least 50 per cent. based on all the courses of his third year, will be required to repeat the year. No student will be admitted to the fourth year of the B.Sc. (Agr.) course who has not passed in third year work equivalent to at least five full courses (30 units), or to the fourth year of the B.Sc. (H.Ec.) course who has not passed in third year courses having an aggregate value of at least 750 marks.

A student who is allowed to repeat a year may be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed and obtained at least 60 per cent, and may be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the timetable.

If a student fails in a course which he has taken with a more advanced class he shall be required to repeat the course when he enters the class in which that subject is regularly taught.

Pass and Honour Standing

Honour Standing:—Students who have obtained an average of at least 60 per cent in the work of the first two years, and who obtain an average of 80 per cent or over, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted First Class Honours; those who obtain an average of from 65 to 79 per cent, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted Second Class Honours. Students who have obtained an average of less than 60 per cent in the work of the first two years are not eligible for Honours.

Pass Standing:—Students who obtain an average of not less than 50 per cent, based on all the courses of their third and fourth years, and not less than 50 per cent in any course, shall be granted Pass Standing.

SUPPLEMENTAL EXAMINATIONS

REGULAR SUPPLEMENTAL EXAMINATIONS.—A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations will be held before the opening of lectures in September and in January.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjunction with the regular sessional examinations.

SPECIAL SUPPLEMENTAL EXAMINATIONS.—Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, will be considered as special supplements and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 902) at least three weeks before the date set for the examinations. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject will be granted marks higher than the pass mark, 50 per cent.

(e) GRADUATE COURSES

Graduate work, under the Faculty of Graduate Studies and Research, McGill University, Montreal, may be taken at Macdonald College, in Agronomy, Bacteriology, Chemistry, Entomology, Horticulture, Nutrition, (Animal, Poultry, Human), Parasitology, and Plant Pathology. The advanced courses of study offered lead to the degrees of Master of Science and Doctor of Philosophy.

Graduates who have completed three full courses or their equivalent in the Department of Economics at Macdonald College and who, in addition, have completed at least two full courses in the Department of Economics and Political Science or their equivalent with at least second class honours, may register in the Faculty of Graduate Studies and Research to proceed toward the degree of Master of Arts.

A number of scholarships and students assistantships are available.

The Faculty of Graduate Studies and Research issues an announcement giving full information regarding graduate courses, and scholarships, theses, registration, etc., in connection therewith, which will be sent on application to the Registrar, to the Dean of the Faculty of Graduate Studies and Research, McGill University, Montreal, or to the Dean of the Faculty of Agriculture, Macdonald College, Que.

SYLLABUS

Diploma Course

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agricultural Engineering:—					
Farm Machinery	1	1	3		
Farm Construction	2			1	2
Agriculture	1	1		1	
Agronomy:—					
Soils and Soil Management	1	3			
Hay and Pasture Crops	3			2	1
Corn and Root Crops	5			3	
Animal Husbandry:—					
Farm Live Stock	1	3	2	2	2
Bacteriology	1			1	1
Botany	1	2	1		
Chemistry	1	2	1		
English	2	3		3	
Entomology	3			2	1
Horticulture:—					
General Horticulture	4	1	1	1	1
Mathematics	1	1	1	1	1
Poultry Husbandry:—					
Productive Poultry Husbandry	1	2	1	2	1
SECOND YEAR Dairy Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2		
Farm Shopwork	7			1	2
Agronomy:—					
Crop Management	7			2	1
Grain Crops	9	2	1		
Animal Husbandry:—					
Farm Live Stock	6	2	2	2	2
Live Stock Breeding	7			2	
Live Stock Feeding	8	2			
Animal Nursing	6			2	1
Dairying	6			2	2
Economics:—					
Principles of Marketing	7	3	1		
Farm Organization and Management	8			2	1
English	7	1	1	1	1
Mathematics	6	2			
Physics	6	1	2		
Poultry Husbandry:—					
Poultry Problems ,Advanced	6			2	1
*General Poultry Husbandry	7	2	1		
Project	6	2		2	
SECOND YEAR Fruit Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2		
Farm Shopwork	7			1	2
Agronomy:—					
Crop Management	7			2	1
Economics:—					
Principles of Marketing	7	3	1		
Farm Organization and Management	8			2	1
English	7	1	1	1	1
Horticulture:—					
Vegetable Gardening	6	2	2	2	2
Ornamental Gardening	7	2	1		
Fruit Growing	8	2	2	3	2
Mathematics	6	2			
Physics	6	1	2		
Plant Pathology:—					
Plant Diseases	6			2	1
Poultry Husbandry:—					
Poultry Problems, Advanced	6			2	1
*General Poultry Husbandry	7	2	1		
Project	6	2		2	

*An elective course which may be substituted for one of the above courses, with the approval of Diploma Course Committee.

SYLLABUS

B.Sc. (Agr.) and B.Sc. (H.Ec.) Courses

First and Second Years

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agriculture:—					
*Agriculture	10	2	1	2	1
Botany:—					
**Botany, Introductory	10	2	2	2	2
Chemistry:—					
Chemistry, Inorganic	10	3	2	3	2
English:—					
Composition	14	1	1	1	1
Literature	15	2	.....	2	.....
Household Science:—					
+Household Science, Introduction to.	10	3	.....	.....	.....
Mathematics:—					
Mathematical Analysis, Elementary	10	3	.....	3	.....
Physics:—					
General Physics	12	3	1	3	1
Physical Education:—					
+Physical Education	10	Minimum 2 hours weekly.			
Textiles:—					
+Laundering	10	.....	.....	2	1
SECOND YEAR					
Agriculture:—					
*Agriculture	20	2	1	2	1
Art:—					
+Interior Decoration and Art Appreciation	20	2	.....	2	.....
+Costume	21	2 lect., per wk., either term.			
Chemistry:—					
Organic Chemistry	20	3	2	3	2
Economics:—					
*Elementary Principles	20	.....	.....	3	.....
English:—					
Literature	24	1	.....	2	.....
Foods and Cookery:—					
+Basic Cookery	26	2	3	2	3
Household Science:—					
+Household Administration	20	.....	.....	2	1
Mathematics:—					
*Calculus	20	3	.....	3	.....
Physics:—					
*General Physics	22	3	1	3	1
Zoology:—					
Zoology, Elementary	20	2	2	2	2

*B.Sc. (Agr.) only.

+B.Sc. (H.Ec.) only.

**B.Sc. (H.Ec.) in lieu of Botany 10, first year French or German will be accepted from students from other Universities.

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SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in									
			Lects.	Labs.			Ag. Eng.	Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Agricultural Engineering:—																
Farm Buildings	31	4	2	2	Second	1944-45	x								2	
Spraying and Dusting Equipment	32	2		2	Second	1945-46										
Farm Machinery	33	4	2	2	First	1944-45	x								2	
Farm Power Machinery	34	4	2	2	Second	1945-46	x								2	
Agricultural Drafting	35	6		3	Both	3rd	x									
Projects	36	3		3	Either	4th										
Applied Mechanics	37	3	2	1	First	3rd	x									
Shopwork	38	6	1	2	Both	1944-45	x									
Engineering for Land Development	39	4	2	1	First	1945-46	x									
		2	2		Second											
Agronomy:—																
Cereal Crops	31	4	2	2	Second	3rd		x							2	
Hay and Pasture Crops	32	3	2	1	First	4th		x							2	
Roots, Corn and other Silage Crops	33	3	2	1	Second	1945-46		x							2	
Experimentation	34	4	1	1	Both	3rd or 4th		x				x				2
Plant Breeding	35	3	2	1	Second	4th		x								2
Crop adaptation and distribution	36	3	2	1	First	3rd		x								2
Soil Management	38	2	2		Second	4th		x							2	
Projects	42	2		2	Either	4th									2	
Field Crop Production	43	6	2	1	Both	3rd or 4th	x									
Animal Husbandry:—															2	
Swine Production	30	4	2	2	Second	1944-45			x						2	
Dairy Cattle Production	34	4	2	2	First	1945-46	x		x							
Live Stock Judging	35	3		3	First	1944-45			x							
Breed History and Pedigree Study	36	4	2	2	Second	1944-45										2
Animal Breeding	38	3	2	1	Second	1944-45			x						2	
Horses, Sheep and Beef Cattle	41	4	2	2	Second	1945-46			x							
Projects	42	3		3	Either	3rd or 4th			x							2
Fundamentals of Nutrition	45	6	3		First	4th			x							
			1	2	Second											
Livestock Feeding Stuffs	46	1	1		Second	4th			x							

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in									
			Lects.	Labs.			Ag. Eng.	Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Bacteriology:—																
General Microbiology	30	4	2	2	Second	3rd or 4th	.....	x	x	x‡	.....	.....	x	x	1	1
Soil Microbiology	32	4	2	2	First	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Laboratory Methods	33	4	1	3	First	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Food Microbiology	34	3	1	2	Second	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Dairy Bacteriology	35	4	2	2	Second	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Projects	36	6	.....	3	Both	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminar	37	2	1	.....	Both	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Physiology of Microorganisms	38	4	1	3	Second	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Botany:—																2
Plant Physiology	30	4	2	2	Second	1945-46	.....	x	.....	x‡	.....	x	x	.....	1	1
Histology and Cytology	31	3	2	1	Second	3rd	.....	x	.....	.....	.....	.....	x	.....	.....	2
Plant Morphology	32	3	1	2	First	3rd	.....	.....	.....	.....	.....	.....	x	.....	.....	.....
Systematic Botany	33	3	.....	3	Second	1944-45	.....	.....	.....	.....	.....	x	x	.....	.....	2
Histological Technique	34	2	1	1	First	3rd	.....	.....	.....	.....	.....	.....	x	.....	.....	1
Chemistry:—																
Analytical Chemistry	30	12	2	4	Both	3rd	.....	.....	.....	x	.....	.....	.....	.....	.....	.....
Organic Chemistry—Preparations	31	2	.....	2	Second	3rd	.....	.....	.....	x	.....	.....	.....	.....	.....	.....
General Biochemistry	32	4	2	2	First	3rd or 4th	.....	x	x	x	x	x	x	x	1	1
Soils—Soil Chemistry	33	3	2	1	First	4th	x	x	.....	x‡	.....	x	.....	.....	1	2
Physical Chemistry	39	8	2	2	Both	3rd	.....	.....	.....	x	.....	.....	.....	.....	.....	.....
Projects	40	6	.....	3	Both	4th	.....	.....	.....	x‡	.....	.....	.....	.....	.....	.....
Seminar	41	2	1	.....	Both	4th	.....	.....	.....	x	.....	.....	.....	.....	.....	.....
Geology:—Soil Genesis and Genetics	42	2	2	.....	Second	3rd	x	x	.....	x‡	.....	x	.....	.....	1	1
Physiological Chemistry	47	4	2	2	Second	3rd + 4th	.....	.....	x	x‡	.....	.....	.....	.....	.....	2
Plant Biochemistry	48	4	2	2	Second	1944-45	.....	.....	.....	x‡	.....	.....	.....	.....	.....	2
Food Chemistry	51	4	2	2	First	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advanced Food Analysis	52	4	2	2	Second	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

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SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in									
			Lects.	Labs.			Ag. Eng.	Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Comparative Physiology and Pathology:—																
Elementary Physiology	30	3	3	.....	Second	3rd	.....	.....	x	x‡	.....	.....	.....	x	1	1
Disease Prevention	31	3	3	.....	First	4th	.....	.....	x	.....	.....	.....	.....	.....	.....	.....
Poultry Diseases	32	2	.....	2	Second	1944-45	.....	.....	.....	.....	.....	.....	.....	x	.....	.....
Microbial Diseases of Animals	33	3	2	1	Second	4th	.....	.....	x	.....	.....	.....	.....	.....	.....	.....
Dairying	30	4	2	2	Second	3rd	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Economics:—																
Principles of Marketing and Co-operation	30	3	3	.....	Second	1944-45	.....	.....	.....	.....	.....	.....	.....	x	2	.....
Economics of Agriculture	31	3	3	.....	Second	1945-46	x	x	x	.....	.....	.....	.....	x	2	.....
Farm Organization and Management	32	3	3	.....	First	1944-45	x	.....	.....	.....	.....	.....	.....	.....	2	.....
Principles of Economic Theory	33	3	3	.....	First	1945-46	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
Projects	34	2	.....	2	Either	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
English:—																
Public Speaking and Journalism	40	2	1	.....	Both	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
The Literature of Utopia	41	4	2	.....	Both	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Extension Methods	30	4	1	1	Both	3rd or 4th	.....	.....	.....	.....	.....	.....	.....	.....	1	.....

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in									
			Lects.	Labs.			Ag. Eng.	Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Entomology:—																
Insect Morphology	30	8	2	2	Both	3rd					x					2
Entomological Technique	32	3	1	2	Second	3rd					x					2
Economic Entomology	33	8	2	2	Both	4th					x					
General and Economic Entomology	34	4	2	2	First	1945-46						x	x			
Systematic Entomology	35	8	2	2	Both	4th					x					2
Insect Ecology	36	2	2	.....	First	1945-46					x					2
Seminar (Third Year)	37	2	.....	1	Both	3rd					x					
Seminar (Fourth Year)	37	2	.....	1	Both	4th					x					
Projects	38	4	.....	2	Both	3rd or 4th					x					
Economic Entomology	39	2	.....	1	Both	4th										
Genetics:—																
Elementary Genetics	30	5	3	2	First	3rd or 4th		x	x			x	x	x	1	1
Advanced Cytogenetics	31	6	3	.....	Both	1945-46										
Horticulture:—																
Vegetable Crops	31	8	2	2	Both	1945-46						x*				
Landscape Architecture	32	4	2	2	Second	1945-46						x*				
Floriculture	35	4	2	2	Second	1944-45						x*				
Plant Breeding	36	4	2	2	Second	4th						x				2
Seminar	37	2	.....	1	Both	4th						x				
Pomology (Orchard Fruits)	38	4	1	1	Both	1944-45						x*			2	
Pomology (Small Fruits)	39	4	1	1	Both	1944-45						x*				
Horticultural Crops	40	6	2	1	Both	3rd or 4th									2	
Projects	41	2	.....	2	Either	4th						x				
Mathematics:—																
Elementary Differential Equations	30	2	1	.....	Both	3rd	x			x						2
Parasitology:—																
Seminar	34	2	.....	1	Both	3rd + 4th										
Projects	35	3	.....	3	Second	4th										
Protozoology	36	4	2	2	First	1944-45										
Medical Entomology	37	4	2	2	Second	1944-45										
Helminthology	38	4	2	2	Second	1945-46										

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SYLLABUS
B.Sc. (Agr.) Course
Third and Fourth Years (*Continued*)

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating); or Year.	Curricula for Students Majoring in									
			Lects.	Labs.			Ag. Eng.	Agron.	An. Hus.	Chem.	Entom.	Hort.	Pl. Path.	Poultry	Gen. (x) Agri.	Gen. (x) Biol.
Physics:—																
Meteorology	32	1	1	.....	Second	1944-45	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Biophysics	33	4	2	2	First	3rd	.....	x	x	x	x	x	x	x	1	1
Soils:—Soil Physics	36	2	1	1	First	4th	x	x	.....	x‡	.....	x	.....	.....	1	2
Molecular and Atomic Physics	38	4	2	.....	Both	4th	.....	.....	.....	x	.....	.....	.....	.....	.....	2
Plant Pathology:—																
Technique	30	2	1	1	Second	3rd	.....	.....	.....	.....	.....	.....	x	.....	.....	2
Diseases of Plants	31	4	2	2	First	1944-45	.....	.....	.....	.....	x	x	.....	.....	.....	.....
Plant Pathology	32	4	2	2	Second	3rd	.....	.....	.....	.....	.....	.....	x	.....	.....	.....
Mycology	33	8	2	2	Both	4th	.....	.....	.....	.....	.....	.....	x	.....	.....	2
Projects	34	4	.....	2	Both	4th	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminar	35	2	.....	1	Both	4th	.....	.....	.....	.....	.....	.....	x	.....	.....	.....
Plant Pathology	36	8	2	2	Both	4th	.....	.....	.....	.....	.....	.....	x	.....	.....	.....
Poultry Husbandry:—																
History of Breeds and Judging	31	3	1	*2	First	1945-46	.....	.....	.....	.....	.....	.....	.....	x	.....	.....
General Poultry Husbandry	33	3	2	1	First	3rd	.....	.....	.....	.....	.....	.....	.....	x‡	2	.....
Breeding Principles	34	3	2	1	Second	1945-46	.....	.....	.....	.....	.....	.....	.....	x	.....	2
Poultry Farm Management	35	4	1	1	Both	4th	.....	.....	.....	.....	.....	.....	.....	x	2	.....
Research	36	6	1	2	Both	4th	.....	.....	.....	.....	.....	.....	.....	x	.....	.....
Projects (Third Year)	37	2	.....	2	Second	3rd	.....	.....	.....	.....	.....	.....	.....	x	.....	.....
Projects (Fourth Year)	37	6	.....	3	Both	4th	.....	.....	.....	.....	.....	.....	.....	x	.....	.....
Poultry Nutrition	38	3	2	1	Second	1945-46	.....	.....	.....	.....	.....	.....	.....	x	.....	.....
Sociology:—																
Modern Communities	40	3	3	.....	First	1945-46	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
The Modern Family	41	3	3	.....	First	1944-45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Zoology:—																
Comparative Vertebrate Anatomy	31	8	2	2	Both	1945-46	.....	.....	.....	.....	x	.....	.....	x	.....	2
Histological Technique	32	3	1	2	First	3rd	.....	.....	.....	.....	x	.....	.....	.....	.....	1

(x) Numbers in columns headed Gen. Agr. and Gen. Biol. refer to the Groups to which the courses belong; for requirements see statement regarding General Agriculture and General Biology Courses, p. 923.

* At least two of the following:—Course 31; Courses 32 and 35; Courses 38 and 39.

‡ Elective course for students specializing in this subject.

SYLLABUS
B.Sc. (H.Ec.) Course
Third and Fourth Years

SUBJECTS	Course No.	Periods per week		Term Given	Year	Curricula for Students taking	
		Lects.	Labs.			Dietetics	Education
Bacteriology:—							
Bacteriology	31	2	2	First	3rd	x	x
Chemistry:—							
General Biochemistry	32	2	2	First	3rd	x	x
Physiological Chemistry	47	2	2	Second	3rd	x	x
Textile Chemistry	50	..	1	Both	4th	*	x
Clothing:—							
Principles of Clothing Construction	30	..	3	Either	3rd	x	x
Advanced Clothing	40	..	3	Both	4th	*	x
Economics:—							
Elementary Principles	20	3	..	Second	3rd	x	x
Education:—							
Educational Psychology	30	3	..	First	3rd	x	x
Methods of Teaching	40a	3	..	First	4th	*	x
Practice Teaching	40b	2	2	Second	4th	..	x
Demonstration Practice	41	3	..	Second	4th	x	x
English:—							
Public Speaking and Journalism	40	1	..	Both	3rd or 4th	*	*
The Literature of Utopia	41	2	..	Both	3rd or 4th	*	*
Extension Methods	30	1	1	Both	3rd or 4th	*	*
Foods and Cookery:—							
Advanced and Experimental Cookery	32	1	2	Both	3rd	x	x
Food Values	33	1	1	First	3rd	x	x
Household Administration:—							
Home Management	31	3 weeks	..	Either	3rd or 4th	x	x
Institution Administration:—							
Institution Administration	40a	2	..	First	4th	x	x
Institution Administration	40b	2	..	Second	4th	x	*
Institution Practice	41	..	3	Either	4th	x	x
Nutrition and Dietetics:—							
Dietetics—Family and Community Nutrition	40	2	1	First	4th	x	x
Diet Therapy	41	4	2	Second	4th	x	..
Nutrition Seminar	44	2	..	First	4th	x	x
Fundamentals of Nutrition	45	3	..	First	4th	x	x
		1	2	Second	4th	x	*
Physics:—							
Biophysics	33a	1	1	First	3rd	x	x
Physiology:—							
Elementary Physiology	30	3	..	Second	3rd	x	x
Sociology:—							
Modern Communities	40	3	..	First	1945-46	*	*
The Modern Family	41	3	..	First	1944-45	*	*
Textiles:—							
Textile Fibres and Fabrics	42	..	1	Both	4th	x	x
Elective	..	3	..	Either	3rd or 4th	x	..

* Elective.

SYLLABUS

Household Science

Homemaker Course

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
Bacteriology:—					
Bacteriology, Elementary	5	2	2	.....	.....
Chemistry:—					
Chemistry, Household, Elementary	5	2	.....	.....	.....
English:—					
Composition and Literature	5	1	.....	1	.....
Foods and Cookery	5	3	4	(either term)	
Home Nursing	5	.....	.....	1½ (8-10 weeks)	
Horticulture:—					
Home Gardening	5	.....	.....	1½ (8-10 weeks)	
Household Accounts	5	.....	.....	2 (8-10 weeks)	
Household Administration:—					
Household Administration	5	4	.....	2	.....
Household Administration	6	1	1	(either term)	
Home Management	7	Experience arranged; either term			
Interior Decoration and Art Appreciation	5	2	.....	2	.....
Laundering	5	2	2	(either term)	
Nutrition	5	1	.....	1	.....
Physical Education	5	2 hrs. per wk., 2 terms.			
Physics, General	5	.....	.....	1	1
Physiology:—					
Anatomy and Physiology	5	2	.....	.....	.....
Textiles and Clothing:—					
Selection and Construction of Clothing	5	4	4	(either term)	

Discontinued Until After the War

II. COURSES IN HOUSEHOLD SCIENCE

(f) PARTIAL COURSES

Partial students may be accepted at the beginning of the session in the B.Sc. (H.Ec.) course, at the discretion of the Director and provided there is accommodation for them. For fees applicable, see page 902.

(g) HOMEMAKER COURSE

The object of this course is to train girls to deal intelligently with problems relating to the management of a home. The courses are, therefore, planned to give the student training in the different branches of household work, supplemented by a study of the sciences and arts which are related to the home. In planning the course full consideration is given to modern economic development and its relation to the woman in the home.

This course is divided into two terms of one-half a college year each, so that students may enter in September or at the beginning of the second half year in January.

Discontinued Until After the War

Entrance Requirements

1. For general requirements see page 910.

2. All candidates for admission to the Homemaker Course must have entered their eighteenth year and have completed Grade VII of the Province of Quebec or its equivalent.

Syllabus (see page 952)

DESCRIPTION OF COURSES

BACTERIOLOGY

5. Elementary Bacteriology.

2 lect., 2 labs., per wk., 1st term.

CHEMISTRY

5. Elementary Household Chemistry.—An introductory course in which the elements of the Science are taught with continual reference to their application in the household.
2 lects., per wk., 1st term.

ENGLISH

5. Composition and Literature.

1 lect., per wk., 2 terms.

FOODS AND COOKERY

5. This includes a study of kitchen equipment and fuels, also a study of food materials—their composition, cost and market conditions, as a basis for selection. Principles of food preparation are stressed and practice given in methods of cookery, applicable to the home.

4 lects., 4 labs., per wk., 1 term.

HOME NURSING

5. The Sick Room.—Location, ventilation, furnishing, temperature, care of room; making of beds; bed baths; care of patient; care of young baby; prevention and care of bed sores; emergencies—first aid—and simple bandaging.

1 lect., per wk., 2nd term.

Discontinued Until After the War

HORTICULTURE

5. Home Gardening.—This course includes a study of vegetable gardening, fruit culture, the lawn, the management of plants used in the beautification of grounds and the care of decorative plants in the home.

1½ hrs., per wk., 8 to 10 wks., 2nd term.

HOUSEHOLD ACCOUNTS

5. This course deals with the problems of household financing and includes the study of standards of living, budgeting, simple methods of household accounting, savings and investments. Practice is given in keeping personal accounts during the course.

2 lects., per wk., 8-10 weeks, 2nd term.

HOUSEHOLD ADMINISTRATION

5. This course is presented in a number of units pertaining to problems in family relationships and processes in the home. (a) the family, home and homemaker; (b) child psychology; (c) selection of house furnishings; (d) kitchen planning and equipment; (e) meal planning and table service.

4 lects., per wk., 1st term; 2 lects., per wk., 2nd term.

6. Care of Household Equipment and Furnishings.

1 lect., 1 lab., per wk., 1 term.

7. Home Management.—See 31—Home Management (page 960).

INTERIOR DECORATION

5. A study of homes and interiors including colour, furniture, textures and arrangements. Appreciation of Art in various fields and the compiling of illustrated notes to be bound in book form at the end of the year.

2 lects., per wk., 2 terms.

LAUNDERING

5. This course includes a study of laundry soaps, water softeners, bleachers, stain removers; a study of textiles from the laundering standpoint; methods and practice in cleaning and laundering clothing and household fabrics.

2 lects., 2 labs., per wk., 1 term.

NUTRITION

5. This course deals with the nutritive properties of common food materials, and the essentials of an adequate diet. The application of such knowledge to the feeding of family groups as well as of individuals of different ages and various occupations, is discussed.

1 lect., per wk., 2 terms.

Discontinued Until After the War

PHYSICAL EDUCATION

5. PHYSICAL EDUCATION.

2 hrs. per wk., 2 terms.

PHYSICS

5. GENERAL PHYSICS.—An elementary course.

1 lect., 1 lab., per wk., 2nd term.

PHYSIOLOGY

5. ANATOMY AND PHYSIOLOGY.—A lecture course in which the structure and function of the various systems of the human body are discussed. Emphasis is placed on the laws of hygiene and the importance of bodily health.

2 lects., per wk., 1st term.

TEXTILES AND CLOTHING

5. SELECTION AND CONSTRUCTION OF CLOTHING.—Standards for buying fabrics and ready made clothing are studied from the standpoint of use, quality, appropriateness and becomingness. Construction of garments includes the making of a tailored cotton undergarment, a wash frock, a silk undergarment and a silk or wool frock. Remodelling and making of seasonable hats when practicable.

Approximate cost of course.....$10.00

4 lects., 4 labs., per wk., 1 term.

Homemaker Examinations

A certificate is granted to a student who successfully completes the course of study in the Homemaker Course.

For pass standing a minimum of 50% of the marks in each subject and 60% of the aggregate marks for the course is required.

Homemaker students conditioned in more than two subjects will be considered as having failed in the examination and may be required to repeat the work of the term in which they have failed before proceeding with the work of the next term.

Students conditioned in not more than two subjects may remove the condition by passing a supplemental examination in the particular subject or subjects. See page 94.

Time lost through absence from classes must be made up after class hours, unless an official report of illness is received.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. *See page 898.*

(h) B.Sc. (H.Ec.) COURSE

This is a four-year professional course leading to the degree of Bachelor of Science in Home Economics.

The final year of the course has been arranged to give more specific training in two fields; in that of a dietitian and in that of a teacher of Household Science. Students enrolling for this year must decide before registering for which of these fields they desire to prepare.

A model Home Management House (the Walter M. Stewart House) is located on the College campus. In this house, under home conditions, the students learn the arts of home management.

A model dining department fitted with up-to-date equipment has been opened at "Glenaladale," a college staff residence. All B.Sc. (H.Ec.) students have an opportunity for practice work in this department as well as in the main kitchen and cafeteria during the final year.

While it is desirable for continuity of work that the whole four years be taken as Macdonald College, the subjects included in the first year are those of a general nature and may, therefore, be taken in the Faculty of Arts and Science at McGill (B.Sc. in Arts), or at any other university giving similar work.

Specialist Certificates for teaching Household Science subjects may be granted by the Protestant Central Board of Examiners of the Province of Quebec to candidates taking the teaching option who have been awarded the B.Sc. (H.Ec.) degree. These certificates are valid only in the Protestant schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this certificate. Those desiring to apply for the certificate will be required to teach a minimum of twelve lessons.

Entrance Requirements

1. The general requirements, page 910.

2. Academic requirements, page 919, under "Entrance B.Sc. (Agr.) Course," with modifications indicated.

DESCRIPTION OF COURSES

ART

20. Interior Decoration and Art Appreciation.—A study of domestic architecture, period furniture, colour theory and harmony, and planning of interiors. History of painting with special attention to the moderns.

2nd Yr.:—2 lects., per wk., 2 terms.

21. Costume.—This course instructs in the priciples of design as applied to dress and in good grooming; fashion shows. Textiles are studied as to fibre, construction and use.

2nd Yr.:—2 lects., per wk., 1 term. Miss Daubney.

BACTERIOLOGY

31. Bacteriology.—A course in general and food bacteriology.

3rd Yr.:—2 lects., 2 labs., per wk. 1st term. Professor Gray.

Text-Book:—Buchanan and Buchanan—Bacteriology.

BOTANY

Taken with B.Sc. (Agr.).

10. Introductory Botany.

1st Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson.

CHEMISTRY

Taken with B.Sc. (Agr.)

10. Inorganic Chemistry.

1st Yr.:—3 lects., 2 labs, per wk., 2 terms. Professor Benham.

20. Organic Chemistry.

2nd Yr.:—3 lects., 2 labs., per wk., 2 terms. Professor Benham.

32. General Biochemistry.

3rd Yr.:—2 lects., 2 labs., per wk., 1st term. Professor McFarlane.

47. Physiological Chemistry.—Prerequisite Chemistry 32 and Physics 33.

3rd Yr.:—2 lects., 2 labs., per wk., 2nd term. Professor McFarlane.

50. Textile Chemistry.—Laboratory Course associated with Textiles 42. Examination of the structure, chemical composition and properties of textile fibres; bleaching; blueing and dyeing; analyses of water and soap. Prerequisite:—Textiles 42.

4th Yr.:—1 lab., per wk., 2 terms. Professor McFarlane.

CLOTHING

30. Principles of Clothing Construction.—Three garments are made, one each of cotton, wool and rayon.

3rd Yr.:—3 labs., per wk., 1 term. Miss Daubney.

40. Advanced Clothing.—An advanced course in dressmaking and costume design including pattern making and draping; weaving a length of cloth which is then tailored into a suit or coat. Problems of fitting and clothing the child or high school girl are studied during the construction of remodelled garments.

4th Yr.:—3 labs., per wk., 2 terms. Miss Daubney.

ECONOMICS

Taken with B.Sc. (Agr.).

20. Elementary Principles.

3rd Yr.:—3 lects., per wk., 2nd term. Professor Lattimer.

EDUCATION

30. Psychology.—General and practical aspects applied to teaching, learning and living.

3rd Yr.:—3 lects., per wk., 1st term. Professor Paton.

40. (a) Methods of Teaching.—The laws of learning and their application to teaching; selection and organization of subject matter, different types of lessons; teaching devices; class management; observation work and the teaching of at least two lessons.

4th Yr.:—The equivalent of 3 lects., per wk., 1st term. Miss Honey.

40. (b) Practice Teaching.—This will include a definite amount of practice teaching with further opportunity for observation. Problems arising from practice teaching at Macdonald College and in Montreal will serve as a basis for some of the discussion. There will be examination of the types of laboratories used in the teaching of Household Science and selection of equipment for same. School law will be studied. Field experience is required, to be taken at a time convenient to all concerned.

4th Yr.:—2 seminars, 2 labs., per wk., 2nd term. Miss Honey.

41.—Demonstration Practice.—This course is planned to furnish both training and practice in demonstrations suitable for use in schools, hospitals, extension work, women's clubs, and the commercial field.

4th Yr.:—3 lects., per wk., 2nd term. Miss Honey.

ENGLISH

Taken with B.Sc. (Agr.).

14. English Composition.

1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison.

15. English Literature.

1st Yr.:—2 lects., per wk., 2 terms. Professor Avison.

24. English Literature.

2nd Yr.:—1 lect., per wk., 1st term
2 " " " 2nd " } *Professor Paton.*

40. Public Speaking and Journalism.—For description see page 933.

41. The Literature of Utopia.—For description see page 933.

EXTENSION METHODS

3. Extension Methods.—An elective course in public speaking, study group technique, extension methods in Agriculture and Household Science, rural sociology.

3rd or 4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison and Committee.

FOODS AND COOKERY

26. Basic Cookery.—A study of foods from the standpoint of nutritive value, Canadian food laws, production and selection. The principles of cookery are taught and applied.

2nd Yr.:—2 lects., 3 labs., per wk., 2 terms. Miss Honey.

32. Advanced and Experimental Cookery.—This is an advanced food preparation course in which one term is spent on experimental cookery.

3rd Yr.:—1 lect., 2 labs., per wk., 2 terms. Miss Stickwood.

33. Food Values.—Calculation of the nutritive value of foods and meals, with practical application.

3rd Yr.:—1 lect., 1 lab., per wk., 1st term. Miss Stickwood.

HOUSEHOLD ADMINISTRATION

20. Household Administration.—A study of the organization and management of the home including meal planning, table service, and factors in selection, care, and arrangement of household furnishings and equipment.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term.

31. Home Management.—Opportunity is given to study the value of organization in a well-equipped house on the campus. Under supervision the students have complete charge of managing the home and gain experience in planning menus, marketing and accounting.

3rd or 4th Yr.:—3 weeks. The equivalent of 1 seminar, and 3 labs., per wk., 1 term.

HOUSEHOLD SCIENCE

10. Introduction to Household Science.—A course of lectures arranged to acquaint the student with the development and scope of Household Science training.

1st Yr.:—3 lects., per wk., 1st term. Household Science Staff and others.

INSTITUTION ADMINISTRATION

40. (a) Institution Administration.—A study of the principles of efficient organization and administration related to food service and housekeeping in institutions.

4th Yr.:—2 lects., per wk., 1st term. Miss Stickwood.

40. (b) Institution Administration.—General principles of purchasing food and equipment for large quantity food work. Field trips.

4th Yr.:—2 lects., per wk., 2nd term. Miss Stickwood.

41. Institution Practice.—Practical experience in dining departments and also in institution routines.

4th Yr.:—3 labs., per wk., 1 term. Miss Stickwood and staff.

MATHEMATICS

Taken with B.Sc. (Agr.).

10. Elementary Mathematical Analysis.

1st Yr.:—3 lects., per wk., 2 terms.

NUTRITION AND DIETETICS

41. Diet Therapy.—The function of nutrition as a curative and preventive factor in disease. Visits to hospital clinics and dietary departments.

4th Yr.:—4 lects., 1 lab., 1 seminar, per wk., 2nd term. Miss Stickwood.

44. Nutrition Seminar.

4th Yr.:—2 lects., per wk., 1st term. Miss McCready and Professor Crampton.

45. Fundamentals of Nutrition.—For description see Animal Husbandry Course 45 in the B.Sc. (Agr.) syllabus.

4th Yr.:—3 lects., per wk., 1st term.
1 lect., 2 labs., per wk., 2nd term. Professor Crampton.

46. Dietetics.—Family and Community Nutrition.—A course of study of the food needs of individuals and families with practice in planning adequate diets at different income levels.

4th Yr.:—2 lects., 1 lab., per wk., 1st term. Miss McCready and staff.

PHYSICAL EDUCATION

10. Physical Education will be included in the work of the first year, all students being required to attend a minimum of two hours weekly during the session. Opportunity is provided for participation of all students in archery, swimming, basketball, skating, hockey and badminton.

PHYSICS

Taken with B.Sc. (Agr.).

12. General Physics.

1st Yr.:—3 lects., 1 lab., per wk., 2 terms. Professor Rowles.

33a. Biophysics.

3rd Yr.:—1 lect., 1 lab., per wk., 1st term. Professor Rowles.

PHYSIOLOGY

Taken with B.Sc. (Agr.).

30. Elementary Physiology.

3rd Yr.:—3 lects., per wk., 2nd term. Mr. Barker.

SOCIOLOGY

40. Modern Communities.—A study of typical modern communities in rural and urban areas; the relations of rural and urban communities as indicated by the spread of urbanization; present-day trends in the social and economic organization of rural and urban communities; present-day community problems.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1945-46. Hours to be arranged. Professor Dawson (Faculty of Arts and Science).

41. The Modern Family.—The social and economic backgrounds of the modern family; the varied marriage systems of different parts of the world; modern trends in family standards of living; forces making for social change and readjustment of the family in North America; factors making for future family stability.

3rd or 4th Yr.:—3 lects., per wk., 1st term. Given in 1944-45. Hours to be arranged. Professor Dawson.

TEXTILES

10. Laundering.—Chemical study of textile fibres, methods of laundering, stain removal and dry cleaning.

1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Miss Daubney.

42. Textile Fibres and Fabrics.—The source, construction, properties and qualities of textile fibres and fabrics used in clothing; furnishings for the home and institution will be studied in order to establish a basis for the wise selection of textile materials by the consumer. Prerequisite to Chemistry 50.

4th Yr.:—1 lab., per wk., 2 terms. Miss Daubney.

ZOOLOGY

Taken with B.Sc. (Agr.).

20. Elementary Zoology.

2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Mr. Whitehead and Dr. Morrison.

B.Sc. (H.Ec.) Course Examinations

(See page 941)

BOOKS

Students will be required to secure text-books for some of the courses. These may be obtained at the College, and $15.00 per year should cover the cost for the B.Sc. (H.Ec.) Course.

POST-GRADUATE DIETITIAN COURSE

A course at Macdonald College is offered to degree graduates of accredited home economics schools. This course includes the following:—Work in department store-room taking charge of supplies; supervision work in Dining-Room; and executive work in Dietitian's office. Opportunity is given for experience in the Housekeeping Department—care of rooms, linen, etc. Students are enabled to attend related classes in the School of Household Science.

Room, board and laundry are provided.

Uniform Requirements:—Six white uniforms; six white aprons; shoes—white Oxfords with rubber heels.

Free Time:—One-half day per week and alternate Sundays.

THE SCHOOL FOR TEACHERS

By an agreement with the Government of the Province of Quebec, dated February 25 and 26, 1907, confirmed by an Act of the Legislature of the Province of Quebec, 7 Edward VII, 1907, chapter 26, it was provided that a school for the training of teachers for the schools under the control of the Protestant Committee of the Council of Education should be established and carried on at Ste. Anne de Bellevue in lieu of the McGill Normal School in Montreal, under the regulations of the Protestant Committee.

This institution is intended to give a thorough training to teachers, by instruction and training in the School for Teachers itself, and by practice in the practice schools; and the arrangements are of such a character as to afford the greatest possible facilities to students from all parts of the Province. The Protestant Central Board of Examiners for the Province of Quebec grants diplomas to teachers-in-training of this school, and to graduates of Canadian or other British universities who have received the necessary training.

For the duration of the war the School for Teachers will be operated at Strathcona Hall, 772 Sherbrooke Street West, Montreal. Correspondence from prospective students should, however, be addressed to Macdonald College, P.Q.

ANNOUNCEMENT FOR THE SESSION 1944-45

The thirty-eighth session of this school will begin on the fifth of September, 1944, and will close on the seventh of June, 1945.

The students are graded as follows:

1.—*Elementary* Class.

2.—*Intermediate* Class.

3.—*Kindergarten* Class.

ENTRANCE REQUIREMENTS

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec will be admitted under conditions prescribed by that body, as hereinafter mentioned.

After receiving certificates of admission, candidates accepted must send to the authorities of Macdonald College a certificate of vaccination as follows: (a) Successful vaccination within seven years; or (b) Immunity to vaccine after two recent unsuccessful vaccinations; such certificate of immunity to be good for five years from date.

Whenever the authorities of Macdonald College receive the lists of candidates admitted to the various classes, they will communicate immediately with all accepted candidates regarding registration, the sending of the admission certificate and the vaccination certificate. They will also forward a copy of the announcement to those who have not already received one. Candidates who are accepted are, therefore, requested to withhold separate inquiries, pending receipt of such general advice from the College.

Candidates who have received admission certificates, but find themselves unable to attend the College, are requested to advise Dr. W. P. Percival, Department of Education, Quebec, Que., of that fact without delay.

MODE OF ADMISSION TO THE SCHOOL FOR TEACHERS

Any one desiring to take a course in the School for Teachers to qualify for teaching in the Province of Quebec, must apply for authorized forms of application for admission, and for all other information, to the Secretary of the Protestant Central Board of Examiners, Dr. W. P. Percival, Department of Education, Quebec, Que. Application for admission must be made on *or before July 20th.*

Candidates are advised to obtain and read carefully the circular entitled *Information for Candidates* issued by the Protestant Central Board of Examiners.

Candidates for any class must be British subjects, or must have begun the necessary proceedings to become such, and must furnish the certificates of age and of good moral character, as required by the regulations. They must also send a medical certificate on a special form obtainable from Dr. Percival. This must show to the satisfaction of the Central Board that the candidate is in good health and free from physical defects likely to interfere with his usefulness as a teacher.

All such candidates, before entering upon a course, must sign an agreement to teach in the Province of Quebec for at least three years after graduation.

Candidates for diplomas for teaching in the Province of Quebec must satisfy the requirements laid down by the Protestant Central Board of Examiners for entrance to the several courses of study in the School for Teachers. Their attention is specifically called to the fact that the courses in French in the School for Teachers are conducted largely in that language. Students who have not had Oral French in the High School grades should make themselves familiar with Oral French as far as possible before entering the School for Teachers. Otherwise, they will find themselves seriously handicapped.

ELEMENTARY DIPLOMA. The examinations for admission to the Elementary Class in the School for Teachers are the High School Leaving or University Matriculation examinations, showing a pass in ten papers.

Candidates for this certificate should have entered their eighteenth year before the first day of September, 1944; that is, they should have been born before the first day of September, 1927.

INTERMEDIATE DIPLOMA. The examination for admission to the class leading to the intermediate certificate are the Senior High School Leaving or the Senior University Matriculation examinations.

The holder of an elementary certificate or diploma with professional training who has obtained a Senior High School Leaving Certificate since receiving such certificate or diploma may be admitted to the Intermediate Class after Christmas to complete the course required for an intermediate certificate. For this purpose the examination for the Senior High School Leaving Certificate may be taken in two parts.

Candidates for this diploma should have entered their nineteenth year before the first day of September, 1944, that is, they should have been born before the first day of September, 1926.

KINDERGARTEN CLASS. The Kindergarten Director's Course is of one year's duration. For entrance to it there is required either: (a) An intermediate certificate or diploma; or (b) *In the case of Montreal students only*, a Kindergarten Assistant's certificate.

Candidates for this diploma are admitted only upon a report of the Dean of the School for Teachers to the effect that they possess the necessary special fitness for kindergarten work.

SPECIAL CONDITIONS

The Central Board of Examiners has the right to admit to any class, in exceptional cases, persons whose qualifications may be insufficient for entrance. Any person who applies for admission under special circumstances should give on the back of his application form a full statement of his reasons for asking special consideration.

The Central Board of Examiners may grant diplomas of any grade to candidates in special cases upon any examination specifically indicated by it.

The Central Board of Examiners has power to limit the number of admissions to the School for Teachers.

BURSARY REGULATIONS

Applying to those who enter the School for Teachers in September, 1944

155. Bursaries of one hundred dollars each shall be paid from the released Normal School fund to such teachers-in-training for elementary certificates in the School for Teachers as shall comply with the regulations in regard thereto, as follows:

(a) Candidates must promise by a witnessed writing to teach three years in some rural elementary school in the Province of Quebec.*

(b) Candidates must enter into a joint obligation with a parent or guardian to reimburse to the Department of Education the amount of the bursary received should they not, within five years, fulfil their said obligation to teach.

(c) No candidate may receive a bursary for two years, but, in case of failure in one year, he may receive the balance of the bursary on the successful completion of his course in a subsequent year.

(d) Candidates for bursaries shall make their applications for the same to the Secretary of the Central Board of Examiners when applying for admission to the School for Teachers.

(e) It is further provided that, in addition to the payment of the foregoing bursaries, similar bursaries shall be paid to such teachers as having not signed the required promise to teach, nevertheless have fulfilled the obligation entered into by others to teach three years in some rural school in the Province of Quebec.

156. (a) The bursaries to teachers-in-training shall be paid in two equal instalments, in December and in June, to those only who are certified by the Dean of the School for Teachers to have pursued their course of studies with reasonable diligence, and to this end the School for Teachers shall draw upon the Department of Education, make the individual payments, and render an account to the Director of Protestant Education.

(b) The bursaries to teachers who come under the provisions of regulation 155 (e) shall be divided into three equal portions and shall be paid only at the end of each year of successful teaching, but in no case shall they be paid after five years from the date of the diploma.

Although students who take the course leading to an intermediate certificate do not receive a bursary during attendance at the School for Teachers, they may do so under this regulation and regulation 155 (e) after they shall have qualified by teaching in some rural school.

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*The elementary department of an Intermediate or of a High School is not included in this term.

(c) The Director of Protestant Education may release for good and sufficient cause a teacher from any obligation to teach three years in the Province of Quebec, but this release shall not remove the obligation to return any bursaries that may have been received.

For official form of certificate of teaching required under regulation 155 (e), and any other information, apply to Dr. W. P. Percival, Department of Education, Quebec, Que.

TRAVELLING EXPENSES

On being awarded an elementary, intermediate, or kindergarten certificate, each teacher-in-training at the School for Teachers residing 200 miles or more from Montreal will be paid, out of the funds provided by the Government, the sum of five cents for each mile that his home, in the Province of Quebec, is distant from Montreal.

TEACHERS' DIPLOMAS

The Director of Protestant Education and the Protestant Central Board of Examiners, under Regulation 114 of the Regulations of the Protestant Committee, alone have the power to grant certificates and diplomas valid for Protestant schools.

To graduates of training courses, interim certificates shall be granted of the following grades, namely: kindergarten, elementary, intermediate, and high school. The elementary certificate is primarily intended to permit the holder to teach in rural elementary schools.

Interim, kindergarten and high school certificates shall be exchanged for permanent diplomas of the respective grades when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education.

Interim elementary and intermediate certificates shall be exchanged for permanent elementary and intermediate diplomas when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education as well as of the successful completion of one session at an approved summer school.

Holders of interim certificates who, in the opinion of the Inspector, shall have taught successfully shall receive from him statements to that effect. When teachers have obtained two such recommendations and have satisfied summer school requirements that may be demanded of them, they shall send the statements together with their interim certificates to the Department of Education where they will be exchanged for permanent diplomas.

Under the regulations of the Protestant Committee, certificates and diplomas of any grade are given only to teachers who have taken professional training.

The examinations for elementary, kindergartern, and intermediate certificates shall be the sessional examinations of the School for Teachers, together with reports on ability to teach and to govern, rendered by the Dean of the School.

Advanced elementary and advanced intermediate diplomas are granted after successful attendance at Summer School for two and three sessions, respectively.

Graduates and undergraduates who are candidates for High School diplomas must take the lectures in Education provided by the universities or the School for Teachers, and during their third and fourth years, or their post-graduate year, must teach fifty half-days as required by regulation. The months of September, May and June are set apart for this practice-teaching.

All holders of intermediate diplomas from the School for Teachers shall be entitled to receive high school diplomas on graduating at some Canadian or other British University provided they have fulfilled the requirements in regard to their degree course that are demanded in Regulation 129 (f).

ELEMENTARY CLASS STUDYING FOR AN ELEMENTARY CERTIFICATE

The course for the above certificate falls naturally into the following divisions: (a) A general review of subjects taught in rural schools; (b) Special methods of teaching the following: English, Arithmetic, French, History, Geography, Nature Study and Agriculture, Writing, Art, Hygiene and Physical Training, Scripture, Music, Primary Methods; (c) Courses in the Principles of Education, Educational Psychology, Tests and Measurements, School Management and School Law; (d) Observation and practice teaching. A great deal of emphasis will be laid on the ability displayed by teachers-in-training in this phase of their work.

FOR THE KINDERGARTEN DIRECTORS' CERTIFICATE

The Kindergarten Director's Course extends for one year. For entrance to it candidates must possess either: (a) An intermediate certificate or diploma; or (b), *In the case of Montreal students only*, a Kindergarten Assistant's certificate.

The candidates must also have additional qualifications, such as love of children, a good voice, musical ability, and an engaging manner.

To enter upon the course leading to a Kindergarten Assistant's certificate, given in co-operation with the Protestant Board of School Commissioners of Montreal, the candidate must have a School Leaving or Matriculation certificate, and must undertake to follow the two years' course of lectures and practice work.

In the Kindergarten Director's Course, students will be employed in the practical work of the Kindergarten during the forenoon of each school day, and will follow a selected course of practical and professional training every afternoon.

Among the subjects taken will be Principles of Education, History of Infant Education, School Management and Law, Kindergarten Theories, Nature Study, Music, Art Work, Hand Work, Physical Training, Games and Songs of the Kindergarten, Stories and Story-telling.

Special attention will be paid to transition work, so that it is hoped those who complete the work of this Class will be specially fitted for the difficult task of training young children effectually in the rudiments of ordinary school work in succession to the work of the Kindergarten, bridging over the chasm that too frequently separates the Kindergarten from the Primary Class.

INTERMEDIATE CLASS STUDYING FOR THE INTERMEDIATE CERTIFICATE

Regular courses of lectures in the History of Education and in the Principles of Education, School Management and Law, will continue throughout the year. In the specific subjects of Agriculture, Elementary Algebra, Arithmetic, Art and Manual Training, English, French, Geography, Geometry, History, Music, Nature Study, Needlework, Physical Culture, Physiology and Hygiene, the same general methods will be employed as in the class studying for the elementary certificate, and just as in it (see page 968) observation and practice in teaching will receive particular attention.

DESCRIPTION OF COURSES

AGRICULTURE

(See GEOGRAPHY and NATURE STUDY, pages 971, 972)

ART AND MANUAL TRAINING

COURSE 1—INTERMEDIATE CLASS.—The Art and Manual Training prescribed for elementary and intermediate schools.

COURSE 2—ELEMENTARY CLASS.—Work suitable for rural schools.

COURSE 3—KINDERGARTEN CLASS.—Work suitable for younger children; also advanced Art in a variety of media.

EDUCATION

COURSE 1—HISTORY OF EDUCATION.—INTERMEDIATE CLASS.—Educational theories and practices from Socrates to modern times.

COURSE 2—EDUCATIONAL PSYCHOLOGY. INTERMEDIATE CLASS. The main aspects of Psychology as they are of direct practical value in the art of teaching.

COURSE 2a—MENTAL HYGIENE. INTERMEDIATE CLASS. Training for exceptional children.

COURSE 3—PRINCIPLES OF GENERAL METHOD. INTERMEDIATE CLASS. Various types of lessons, methods and devices.

COURSE 4—SCHOOL AND CLASS MANAGEMENT. INTERMEDIATE CLASS. Various types of schools, their organization, classification and management, from the smaller routine items to the larger problems of time-table construction, discipline, and control.

COURSE 5—SCHOOL LAW AND REGULATIONS. INTERMEDIATE CLASS. The school law and regulations affecting teachers and pupils.

COURSE 6—EDUCATION, PRINCIPLES OF GENERAL METHOD. ELEMENTARY CLASS. The fundamental principles underlying all special methods, organization of subject matter, the planning of recitations, various types of lessons.

COURSE 7—EDUCATIONAL PSYCHOLOGY. ELEMENTARY CLASS. Those aspects of Educational Psychology which are of importance to the teacher.

COURSE 7a—TESTS AND MEASUREMENTS. ELEMENTARY CLASS. The construction and use of new type tests in the class room.

COURSE 8—MENTAL HYGIENE—ELEMENTARY CLASS. See Course 2a.

COURSE 9—SCHOOL AND CLASS MANAGEMENT. ELEMENTARY CLASS. Same as Course 4 except special emphasis will be laid on rural organization, etc.

COURSE 10—SCHOOL LAW AND REGULATIONS. ELEMENTARY CLASS. Same as Course 5.

COURSE 11—SEMINAR IN PRACTICE TEACHING. ELEMENTARY AND INTERMEDIATE CLASSES. Criticism and discussion of actual lessons taught by students in the Practice School and in Montreal schools.

COURSE 12—PRINCIPLES AND PRACTICE. KINDERGARTEN DIRECTORS' CLASS. Various types of Kindergarten theories and practices.

COURSE 13—HISTORY, THEORY AND PRACTICE OF THE KINDERGARTEN. KINDERGARTEN DIRECTORS' CLASS. Development of modern methods and current practice.

COURSE 14—THEORY AND PRACTICE OF THE KINDERGARTEN. KINDERGARTEN ASSISTANTS' CLASS. This course is given to the Kindergarten Assistants' Classes in the High School for Girls, Montreal.

COURSE 15—CHILD PSYCHOLOGY. KINDERGARTEN ASSISTANTS' CLASS. This course is given in the High School for Girls, Montreal.

COURSE 16—EDUCATIONAL PSYCHOLOGY, 3RD YEAR B.Sc. (H.Ec.) STUDENTS. See page 959.

NOTE.—For courses in Education required for the High School diplomas, see the Announcement of the Faculty of Arts and Science, McGill University.

ENGLISH

INTERMEDIATE CLASS:

COURSE 1: Literature (Reading and Appreciation). Content and methods, applied to the prescribed courses of study in elementary schools; problems in silent and oral reading; tests of reading ability; examinations in literature.

COURSE 2: Language (Composition and Grammar). Typical units of oral and written work throughout the grades; a study of grammar—functional for the pupil, formal for the teacher; spelling and vocabulary building; the marking of written compositions.

COURSE 3: English, the Curriculum, and the Teacher—The relation of English to other subjects on the course of study; special problems in the junior high school grades; academic and professional preparation to teach English acceptably.

ELEMENTARY CLASS:

COURSES 1 AND 2: As above.

COURSE 3: Problems of English teaching in rural schools.

FRENCH

COURSE 1—INTERMEDIATE CLASS. Pronunciation, review, methods, and devices for teaching Oral French. An individual oral examination is required from all students.

COURSE 2—ELEMENTARY CLASS. Lessons suitable for a rural school.

Opportunities for practice are afforded by the constant use of French in the class room and at the Cercle Français, where meetings are conducted entirely in French. The programmes of the Cercle Français consist of songs, games, impromptu speeches, short plays, illustrated lectures and an occasional *causerie* by well-known French speakers.

GEOGRAPHY

COURSE 1—INTERMEDIATE CLASS. Review of fundamental principles, detailed studies and methods of teaching.

COURSE 2—ELEMENTARY CLASS. Scholarship and methods suitable for rural schools.

Intermediate and Elementary students are requested to provide themselves with a copy of Frye and Gammell's *Geography*, Thralls and Reeder, *"Geography in the Elementary School"* (Rand McNally), Stembridge *"The World"* (Clarke, Irwin Co., Toronto) as well as a *Geography Note Book* published by Copp Clark Company.

HISTORY

Course 1—Intermediate Class. Methods of teaching the Course of Study.

Course 2—Elementary Class. Methods adapted to rural school conditions.

Intermediate and Elementary students are requested to provide themselves with a copy of Bengay's, "*A History of Canada*" (Nelson), as well as a *Canadian History Note Book*, published by Copp Clark Company.

MATHEMATICS

Course 1—Intermediate Class.

a. Arithmetic. Present-day movements and methods of teaching Arithmetic.

b. Algebra and Geometry. Methods for teaching the Course of Study for Grade IX.

Texts Required:—Morton's *Teaching Arithmetic in the Intermediate Grades* (Revised edition); Hart: *Progressive High School Algebra* (Revised Canadian edition), Lougheed and Workman: *Geometry for High Schools.*

Course 2—Elementary Class. Arithmetic for the rural ungraded school.

Texts Required—Morton's *Teaching Arithmetic in the Elementary School, Vol. 1, Intermediate Grades* (Revised edition).

MUSIC

Course 1—Kindergarten Class. Methods and music suitable for the Kindergarten.

Course 2—Intermediate Class. The Course of Study and methods of teaching it.

Course 3—Elementary Class. Music in rural schools.

Music Certificates. All students must devote individual study towards preparation for one of the music certificates, issued by the Protestant Central Board of Examiners. The certificates are in four grades, viz.:—Preliminary, Junior, Senior and Advanced. Details of the necessary requirements will be found posted at all times in the College Music Room.

NATURE STUDY

Course 1—Intermediate Class. Methods of teaching natural topics on a seasonal basis according to local environment.

Course 2—Elementary Class. Methods and suggestions suitable for rural teachers.

NEEDLEWORK FOR WOMEN

Construction of simple, attractive and useful articles employing the use of various hand stitches and the sewing machine. A study of materials and their uses, properties of the various fibres and simple tests for their identification. One period a week for one term.

PHYSICAL EDUCATION

INTERMEDIATE AND ELEMENTARY CLASSES.

The authorized course is the *Syllabus of Physical Training for Schools. 1933*, supplemented with indoor and outdoor games, etc.

Students must wear the regulation costume for gymnastic work. See page 906.

Students wishing to swim must provide themselves with woollen bathing suits of guaranteed fast dye.

STRATHCONA TRUST CERTICIFICATE

Students in the School for Teachers must qualify themselves to pass the examinations for Strathcona Trust Certificates, and be able to teach the *Syllabus of Physical Exercises, 1933*, approved by the Strathcona Trustees and adopted for the province:—Grades A and B for men and Grade B for women.

TROPHIES, CUPS AND MEDALS FOR WOMEN. See page 979.

PHYSIOLOGY AND HYGIENE

COURSE 1—INTERMEDIATE CLASS. Personal and School Hygiene; methods of teaching the Course of Study.

COURSE 2—ELEMENTARY CLASS. Conditions and needs of rural schools, in relation to Personal and School Hygiene.

PRIMARY METHODS

COURSE 1—INTERMEDIATE CLASS. Junior children and the approach to Language, Reading, Spelling, Poetry, Story, Geography, History, Writing and Scripture.

COURSE 2—ELEMENTARY CLASS. Methods and suggestions for the work in the junior and beginners' classes in a rural school.

A practical course is given in the preparation of classroom and individual material. Students are advised to bring smocks, scissors, penknife.

ENTERPRISES—Theory and practical work will be carried out by all students.

RELIGIOUS INSTRUCTION

Teachers-in-training will be required to state with what religious denomination they are connected, and to meet weekly for Religious Instruction in accordance with the scheme approved by the Protestant Committee. Every Thursday after four o'clock is at present assigned for this purpose. In addition to punctual attendance at weekly Religious Instruction, each student will be required to attend public worship at least once every Sunday.

SCRIPTURE

INTERMEDIATE, ELEMENTARY, AND KINDERGARTEN CLASSES.

The course of study, moral training and opening exercises.

BOOKS

See also page 904.

Students should bring with them all books in their possession which may be of service in preparing to teach elementary, intermediate or High School classes, and also books on the professional training of teachers.

Textbooks in the various classes are announced by each professor or lecturer at the beginning of the session, and are naturally subject to change from time to time unless specified under the various courses.

ROOM FURNISHINGS

For room furnishings required at Strathcona Hall, see page 904.

THE MACDONALD HIGH SCHOOL

The Macdonald High School is organized as a Protestant High School, and in general subjects follows the courses prescribed by the Protestant Committee of the Council of Education for the kindergarten, elementary, intermediate, and High School grades of the Province. Special courses are also given by specialists in Music, Physical Training, Cooking, Sewing, Manual Training, Physics, and Chemistry.

The School will open Tuesday, September 5th.

There are no fees for Protestant children from the Protestant School Municipalities of Ste. Anne de Bellevue, Ste. Anne du Bout de l'Isle, Senneville, and Vaudreuil—Dorion, but for all other pupils, who are accepted if there is accommodation, there is a fee of $70.00 per pupil per year of all grades. This fee is payable *strictly in advance*, by four instalments of $17.50, each to the Secretary, Macdonald College, Que., on September 1st, November 1st, February 1st, and April 1st, respectively.

There is no residence accommodation for pupils attending the High School.

All candidates for admission to the High School must produce a medical certificate of vaccination as follows: (a) Successful vaccination within seven years, or, (b) Immunity to vaccine after two recent unsuccessful vaccinations—such certificate of immunity to be good for five years from date.

See also page 893.

SCHOLARSHIPS AND PRIZES

GENERAL

Bursaries for Sons of Farmers

The following bursaries are available on application for *sons of farmers* of Quebec, the Ottawa Valley in Ontario, and the Maritime Provinces, who are living in residence at the College.

Diploma Course students	$10.00
Degree Course students	15.00
Postgraduate students	15.00
School for Teachers' students	15.00

Application for one of these bursaries must be made at the beginning of the session and must be accompanied by a recommendation from the local agronome, agricultural representative, or similar official.

MACDONALD COLLEGE BURSARIES

A limited number of bursaries and scholarships are available for degree students in the Faculty of Agriculture. Application should be made to the Registrar before September 15th.

FACULTY OF AGRICULTURE

Diploma Course

The Fisher Trust Fund, in memory of the late Honourable Sydney A. Fisher, formerly Member of Parliament for Brome County and Minister of Agriculture, Canada, offers for the session 1944-45, two agricultural scholarships of $75.00 a year each, tenable at Macdonald College for two years, for the Diploma Course in Agriculture, from November 2nd, 1944, to March 31st, 1945, on the following conditions:—

1. The candidates must be sons of farmers in the County of Brome, co-operating in farm activities during the period of their college course.

2. The candidates must be at least sixteen years of age.

3. The candidates must have passed at least grade IX of the High School Course.

4. These scholarships will be continued from term to term only upon favourable reports from the Dean of the Faculty of Agriculture.

Applications must be sent, on or before the 1st of October, 1944, to the Chairman of the Fisher Trustees, R. F. Cowan, Mansonville, Que.

Q.W.I. Bursary. The Quebec Women's Institute provides a bursary of $50.00 to the student entering the second year of the Diploma Course who (1) is a professional farmer's son, (2) has spent at least one season, seed time to harvest, in his father's employ on the farm, (3) intends to

return to his father's employ for at least one year on the completion of his course, (4) and who, if more than one candidate presents himself as fulfilling the above three requirements, takes the highest marks in Agriculture and Agricultural Engineering in the first year or, if he is the only candidate, obtains at least second class standing in these two subjects.

Lieutenant-Governor's Medal. His Honour the Lieutenant-Governor of the Province of Quebec, gives annually a bronze medal, which is awarded to the student who takes the highest percentage in General Proficiency in the First Year of the Diploma Course.

Minister of Agriculture's Medals. The Honourable the Minister of Agriculture of the Province of Quebec, offers annually two bronze medals in connection with the Diploma Course, Second Year Class, to be presented to the students ranking first in the Dairy Farming and in the Fruit Farming Groups respectively.

B.Sc. (Agr.) Course

Nova Scotia College of Agriculture Scholarship—Macdonald College offers a scholarship of two years' tuition (value of $100.00) to the student of the Nova Scotia College of Agriculture obtaining the highest standing in the work of the Second Year of the degree course in that College.

The Borden Company Limited Scholarship—A scholarship valued at $200.00 is offered by the Borden Company Limited of Canada to encourage promising students who take a course of study of value to the dairy industry. The award will be made to a student on completion of his third year, half payable at the beginning of the first term of the fourth year, the balance at the beginning of the second term. The following factors will be considered in making the award: high standing in the subjects of his course during the third year with emphasis on dairying, dairy chemistry or dairy bacteriology; participation in student organizations and college activities; co-operation with students and staff in the advancement of the interests of the student body and the College as a whole.

Applications should be addressed to the Registrar.

The Daughters of the Empire Bursary—As a recognition of the value of agricultural education in their Province and Country, the Imperial Order of the Daughters of the Empire, Quebec Provincial Chapter, gives a bursary of $200.00, tenable during the third and fourth years of the B.Sc. (Agr.) course, to the British student who obtains the highest marks in the final examinations of the second year. The bursary is payable to the winning student in two instalments of $100.00 each at the beginning of his third and fourth years respectively.

Governor General's Medal—His Excellency the Governor General of Canada donates a bronze medal to be awarded to the second year student who ranks highest in General Proficiency in first and second year work.

Lieutenant-Governor's Medal—His Honor the Lieutenant-Governor of the Province of Quebec gives annually a silver medal, which is awarded to the student who takes the highest standing in General Proficiency in the first year of the B.Sc. (Agr.) course.

The Stern Cup—Sir Edward D. Stern, Fan Court, Chertsey, Surrey, England, has donated a silver challenge cup, which is held for one year by the student who makes the highest aggregate in Stock Judging in the final year of the subject.

The Cutler Shield—Mr. Garnet H. Cutler, Professor of Agronomy, Purdue University, Lafayette, Indiana, the first lecturer in Cereal Husbandry, Macdonald College, has donated a bronze challenge shield, which is held for one year by the student majoring in Agronomy, who makes the highest aggregate in the final year.

The Conklin Trophy—Dr. Raymond L. Conklin gives a trophy to be awarded to the student in any year of the degree course who obtains the highest percentage of total marks, and who, during the same year, has won a place on the College (Canadian) Rugby team and on one other team sport. The trophy will be awarded only once to any individual.

The T. Fred Ward Swimming Trophy—A silver challenge cup donated by Mr. T. F. Ward, Secretary of the College, to be held for one year by the student winning the greatest number of points at the annual men's swimming meet.

The Lochhead Memorial Prize—In memory of her late husband, William Lochhead, B.A., M.Sc., the first Professor of Biology in Macdonald College, Mrs. Lochhead has established by an endowment of $400.00, a prize to be awarded to the student, majoring in Entomology, who takes the highest standing in the fourth year, the prize, in value equal to the proceeds of the endowment for one year, to be in books selected by the winner with the approval of the Head of the Department of Entomology.

The Dr. John L. Todd Gymnastic Medals for Women. See page 982.

The Janet Morison Robb Bursary for Women. See page 981.

NOTE:—No prize will be awarded to any student in any of the classes, whose percentage of marks is below seventy, unless by special action of the Faculty.

POSTGRADUATE SCHOLARSHIPS

Walter M. Stewart Scholarship—Two scholarship of $500.00 each are offered postgraduate students at Macdonald College. One may be held by a postgraduate student whose undergraduate work was taken at the Institut Agricole d'Oka, one by a student from Ste. Anne de la Pocatiere. Application for these scholarships must be made to the Directors of the two colleges mentioned.

B.Sc. (H.Ec.) Course

His Honour the Lieutenant-Governor of the Province of Quebec donates two medals:

(1) *A silver medal*, to be awarded to the student who ranks highest in the third year of the B.Sc. (H.Ec.) Course.

(2) *A bronze medal*, to be awarded to the student who ranks highest in the second year of the B.Sc. (H.Ec.) Course.

The Montreal Housewives' League gives a prize, for the best results secured in the conservation of food, as demonstrated in home methods of canning fruits and vegetables. The prize is open to the graduating class in the B.Sc. (H.Ec.) Course.

The Frederica Campbell Macfarlane Scholarship.—A scholarship has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institutes from 1913 to 1919. This scholarship is of the value of $50.00, is open only to students from a rural district of the Province of Quebec, and is awarded on the results of the final examinations in any one of the first three years of the B.Sc. (H.Ec.) Course.

The Dr. John L. Todd Gymnastic Medals for Women. (See page 982).

The Janet Morison Robb Bursary for Women. (See page 981).

UNIVERSITY SCHOLARSHIPS

In addition to the foregoing, Degree students at Macdonald College are eligible to apply for the following University scholarships. Particulars will be found in the announcement of Scholarships, Bursaries, Prizes, Medals and Loan Funds, obtainable from:—The Registrar, McGill University, Montreal, Que.

Ottawa Valley Bursaries.

The Isabella C. MacRae Scholarships.

Bnai Birth Bursaries.

Leonard Foundation Scholarships.

The Christie-Storer Chapter Scholarship.

Khaki University and Y.M.C.A. Memorial Scholarship Fund.

Frederick Southam Ker Bursary.

Homemaker Course

His Excellency the Governor-General of Canada donates a bronze medal to be awarded to the Homemaker student who ranks highest in General Proficiency.

The Montreal Local Council of Women donates a prize in books to the value of $10.00 to be awarded to the student or students of the Homemaker Course showing outstanding ability in practical subjects.

The Dr. John L. Todd Gymnastic Medals for Women. See page 982.

The Janet Morison Robb Bursary for Women. See page 981.

SCHOOL FOR TEACHERS

Prizes and Medals

His Excellency the Governor-General of Canada gives a bronze medal to the student who takes the highest standing in the Art of Teaching, whether in the Elementary Class, the Kindergargen Class, or the Intermediate Class.

His Honour the Lieutenant-Governor of the Province of Quebec gives annually a silver medal and a bronze medal. These medals are awarded to the students who take the highest standing in mathematics in the Intermediate and Elementary Classes respectively.

The Prince of Wales medal will be given to the teacher-in-training who takes the highest aggregate of marks in the Intermediate Class.

The Superintendent of Education gives annually a medal to the teacher-in-training who stands second in the Intermediate Class. He also gives a prize in books to the student who ranks highest in French.

The J. C. Wilson prize was provided by bequest of $1800.00, of the late J. C. Wilson. The proceeds of the bequest for one year will be given to the teacher-in-training who takes the highest aggregate of marks in the Elementary Class.

Le Comité de l'Alliance Française de Montréal offers a silver medal in the Intermediate Class, and a bronze medal in the Elementary Class, to the English-speaking student who in each class takes the highest marks in French.

The Bishop of Montreal gives annually two prizes in books, as follows: To the students in the Intermediate and Elementary Classes, who take the highest standing in Scripture.

The Association of Protestant Women Teachers of Montreal gives annually a prize to the student of the Intermediate Class who takes the highest standing in School Management and Principles and History of Education.

The Dr. John L. Todd Gymnastic Medals for Women. See page 982.

The Janet Morison Robb Bursary for Women. See 981.

Milton L. Hersey, M.A.Sc., LL.D., a member of the Council of Education, Que., has established, by an endowment of $250.00, a prize in the Intermediate Class, and also in the Elementary Class; to the teacher-in-training who takes the highest standing during the year in Nature Study and Elementary Agriculture.

The Honorable Jacob Nicol, K.C., M.L.C., D.C.L., a member of the Council of Education, Que., gives a prize in books to the teacher-in-training of the Elementary Class who takes the second highest aggregate of marks.

The Outremont Protestant Teachers' Association gives annually a prize to be awarded to the student in the Elementary Class who takes the highest standing in School Management and Principles of Education.

"The Gardner Kneeland Memorial Prize," was established by an endowment of $200.00 by the late Professor A. W. Kneeland, M.A., B.C.L., in memory of his father. The proceeds of the endowment for one year is awarded to the student who ranks highest in English.

The Frances Willard Women's Christian Temperance Union, Westmount, Que., gives annually a prize of ten dollars to the student who takes the highest standing in the subject of Physiology and Hygiene.

A. Kirk Cameron, a member of the Council of Education, Que., gives annually a prize of ten dollars to the student who takes the highest standing in Primary Methods.

"The Dr. S. P. Robins Memorial Prize," was established by an endowment of $500.00, by Miss Lilian B. Robins, B.A., former lecturer in Mathematics, School for Teachers, Macdonald College, in memory of her father, who was first Professor of Mathematics, 1857 and, later, Principal of McGill Normal School, Montreal, until 1907. The proceeds of the endowment for one year will be awarded to the student who obtains a diploma, and is the most deserving student from the point of view of personality, professional attainments, and home circumstances.

NOTE:—Prizes are awarded only to students who obtain diplomas in the specified class.

Sarah Emma Hill Scholarship

The Sarah Emma Hill Scholarship, endowed by the late Mrs. Sarah Emma Hill, of Stanstead, Que., of the present value of about $100.00, will be awarded each year to a student in the School for Teachers "where assistance is required,—this money to be used by the Trustees of Macdonald College according to their best judgment."

Candidates for this scholarship are requested to make written application to the Dean of the School for Teachers, on or before September 30th, giving full particulars of the grounds upon which their applications are based, and to provide letters supporting their claims from two responsible persons.

In making the award, consideration will be given to scholarship and professional ability.

Ella Bryson Scholarship

This scholarship was bequeathed by the late Miss Ella Bryson of Fort Coulonge, Que., to the Women's Institute of Fort Coulonge, the proceeds of which are to be used as a scholarship at Macdonald College for a student from the Fort Coulonge Protestant School taking a course in the School for Teachers. Candidates for this Scholarship are requested to make application to the Dean of the School for Teachers on or before September 30th each year, and must be supported by recommendation from the Women's Institute of Fort Coulonge.

I. O. D. E. Bursary

The Municipal Chapter of Montreal Imperial Order Daughters of the Empire awards annually a bursary of $350.00 in the School for Teachers. This bursary is open to all girls of the High Schools in the municipality of Montreal and vicinity, including Lachine, Longueuil and St. Lambert, and will be awarded by a committee of selection chosen by the Order. Application forms can be obtained from the Principals of the High Schools concerned, or from the Educational Secretary of the Municipal Chapter of Montreal Imperial Order Daughters of the Empire—Mrs. F. M. Stevens, 493 Argyle Avenue, Westmount, Que.

OPEN TO ALL WOMEN STUDENTS

The Janet Morison Robb Bursary for Women was established, by an endowment of $2,000.00, by the late Honourable James A. Robb, formerly Member of Parliament for Chateauguay-Huntingdon and Minister of Finance, Canada, in memory of his deceased daughter, Janet Morison Robb, wife of Hugh Harvie Donald. The annual bursary will be the proceeds of the endowment for one year.

Preference will be given to women students resident in either of the counties of Chateauguay-Huntingdon, or Beauharnois, who are daughters of widowed mothers of limited or moderate means, or daughters of widowers in similar financial circumstances, or daughters of disabled Canadian soldiers who have seen active service.

Candidates for this bursary are requested to make written application, addressed to the Secretary, Macdonald College, Que., *on or before 15th April*, giving full particulars of the grounds upon which their applications are based, and to provide letters from two responsible persons in support of their claims.

Dr. John L. Todd Gymnastic Shield:—Donated by Dr. Todd for annual intersection gymnastic competition.

Dr. John L. Todd Basketball Trophy:—Donated by Dr. Todd for annual intersection basketball competition.

Dr. John L. Todd Gymnastic Medals:—Four medals—gold, silver, bronze, and nickel, donated annually by Dr. Todd for annual individual gymnastic competition.

1913-14 Baseball Cup:—Donated by the Girls' Athletic Association, 1913-14, for annual interesction base-ball competition.

Lady Constance Stewart-Richardson Swimming Cups for General Excellence and General Proficiency in Swimming and Diving:—Donated by Lady Constance Stewart-Richardson for annual individual competition.

The Badminton Challenge Cup:—Donated by the Girls' Athletic Association, 1928-29, for annual individual competition.

NOTE:—Only students taking a full year's course at the College are eligible to compete for the swimming cups, gymnastic medals and the badminton cup.

THE MACDONALD COLLEGE LIBRARY

The library and reading room are centrally located in the Main Building, occupying the ground floor of an annex leading off the main hall. Seventy-six readers can be accommodated in the reading room; and in a series of alcoves there are reference works and text-books on the work of the various departments.

The present stack-room has accommodation for about 25,000 volumes, and the choice of books has been directed towards bringing together the best of modern literature on subjects of the curriculum of the College.

The Walter M. Stewart Collection includes biography, history, travel, science, etc. This collection has been purchased with sums of money given by Walter M. Stewart, of Montreal.

EXTENSION SERVICE IN THE FACULTY OF AGRICULTURE

AGRICULTURE

DEPARTMENTAL SERVICES.—The services of the various departments of Macdonald College are always available for the advancement of the agricultural and home interests of the Province of Quebec. Personal interviews at the College and correspondence are invited.

JUDGES, SPEAKERS, EDUCATIONAL EXHIBITS.—Macdonald College, upon request, and when convenient arrangements can be made, will supply judges for exhibitions and speakers for meetings held under the auspices of agricultural societies, farmers' clubs, women's institutes, livestock, poultry and dairy associations, seed growing and horticultural societies and kindred organizations and, in some cases, will provide educational exhibits.

VISITORS TO THE COLLEGE FROM THE FARMING COMMUNITY OF QUEBEC are always welcome, from 9 a.m. until 5 p.m., excepting on Sundays, Saturday afternoons, and public holidays.

FARMERS' EXCURSIONS TO THE COLLEGE.—Excursions organized by agricultural societies, farmers' clubs, and similar bodies, are cordially invited to the College in the month of June to inspect the work in progress in the various departments, the main farm, field crops, orchards and vegetable gardens, the greenhouses, the poultry plant, the dairy, and the scientific laboratories, to see for themselves the experimental and demonstration work and to ask questions in regard thereto. An opportunity is also given to inspect the student residences, the dining-room, the gymnasium, and other parts of the building, and thereby to understand to some extent the conditions of student life at the College.

When arrangements are made in time, organized excursions will be provided at a nominal charge with a luncheon of sandwiches, bread and butter, cheese, and hot tea; or, if preferred, excursionists may bring their own lunch baskets, the College providing tea. In order to provide for the convenience and comfort of such excursionists, advice should be sent in advance as to the hours of arrival at and departure from the College, and as to the number of excursionists to be expected. Address:—The Dean of the Faculty of Agriculture, Macdonald College, Que.

SPECIMENS FOR EXAMINATION.—Please note that plants, seeds, insects, and similar specimens sent to the College for identification or examination, should be prepaid if sent by express, and attached thereto should be a tag containing the name and the address of the sender, and full particulars of the material sent. Parcels sent by parcel post should also be similarly tagged, in order that the material may be submitted to the department suited to make the examination.

HOUSEHOLD SCIENCE

Questions relating to household subjects will be answered.

Address:—the Director of the School of Household Science, Macdonald College, Que.

THE UNIVERSITY LIBRARY

G. R. Lomer, M.A., Ph.D., University Librarian

The University Library, which is under the general management of a Committee of Senate, includes the Redpath Library (Blackader Library of Architecture, Blacker Library of Zoology, and Wood Library of Ornithology), the Medical Library, Osler Library, Baillie Library of Chemistry, Engineering Library, Physics Library, the Royal Victoria College Library, the Carnegie Library, and the Law and Commerce libraries in Purvis Hall.

The several libraries of the University now contain over 450,000 volumes and 45,000 pamphlets, considerable collections of maps and photographs, and a number of the rarer and more costly monographs and serials which are indispensable for purposes of research. The Library now receives over 2,900 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the Redpath Library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, and the Collection of Canadiana.

The Blackader Library of Architecture has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill). The Wood Library of Ornithology was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library. The Blacker Library of Zoology, presented by Robert Roe Blacker and Nellie Canfield Blacker, is a comprehensive reference library on this special subject. In addition to standard works, it includes a number of monographs and an extensive collection of reports of scientific voyages and periodicals. It is supplemented by the Lyman Collection of books on Entomology. The Faculty of Medicine (including the Bibliotheca Osleriana), and the Royal Victoria College maintain libraries in their respective buildings; and there are Departmental Libraries in Engineering, Chemistry, Physics and Botany. The Libraries of the Faulty of Law and the School of Commerce were installed, in 1943, in Purvis Hall.

The Travelling Libraries, now at Macdonald College, provide extramural library service at a moderate fee. With the Library is affiliated the University Book Club, which supplies its members with standard, important and recent publications and makes a substantial annual contribution of books to the Library.

The Library maintains a museum, open to the public, with a permanent exhibition illustrating the development of the Book Arts, and numerous temporary exhibits are shown at the entrance and in the Gallery of the Reading Room.

UNIVERSITY MUSEUMS

1. Peter Redpath Museum.

The Peter Redpath Museum, a dignified building in the Neo-Greek style, situated between the University Library and the Arts Building, was erected by the donor whose name it bears and was handed over to the University in 1882, the architects being Hutchison and Steele. It is the only building in the University solely designed for museum purposes. It contains, on three floors, a great variety of museum material, the most important collections being the paleontological, the mineralogical, and the zoological, and a condensed exhibit of economic geology. Curator, T. H. Clark; Assistant Curator, Alice E. Johannsen; Associate Curator, J. D. Cleghorn, (on war service).

2. McCord National Museum.

The McCord National Museum is housed in a building adjacent to the campus, on the north side of Sherbrooke Street. Eleven rooms, the hall and the passages are occupied by the collections, which consist of articles illustrating the history and social life of Canada, the bulk of which were presented to the University in 1919 by David Ross McCord, Honorary Curator until his death. Subject to certain life interests, he bequeathed the major part of his estate to the University "as an Endowment Fund for the maintenance and development of the McCord National Museum." The museum is temporarily closed. Acting Curator, T. H. Clark; Assistant Curator, Alice E. Johannsen.

3. Library Museum.

The Library Museum is housed in a toplighted upper floor of the south wing of the Redpath Library. It contains in table and wall cases a series of exhibits (inscribed clay tablets, papyri, manuscripts and printed books) illustrating the history of writing and of the book from the first millennium B.C. (in Egypt and Babylonia) onwards. Museum talks are given free to students, school children and visitors. In the gallery above the Reading Room, special exhibits and groups of objects, books, and pictures of general interest are set out and are changed from time to time. An alcove facing the entrance of the Library is utilized as a display case for weekly exhibits of items of topical interest. Curator, G. R. Lomer.

4. Ethnological Museum.

This at present occupies the ground floor of the Medical Museum in the Medical Building. It contains the important ethnological material removed from the Peter Redpath Museum, together with ethnological material from other sources, mainly Canadian Indian. There is in addi-

tion the Garstang loan collection, illustrative of Egyptian culture through four millennia. The arrangement of the ethnological material is geographic. Acting Curator, T. H. Clark; Assistant Curator, Alice E. Johannsen.

5. In addition to the above there are other collections and exhibits of a specialized nature, ordinarily open only to students but to which access may be gained by application to the Curator concerned. These include the Anatomical, Medical-and Pathological Museums, the Museum of Hygiene, the Rutherford Collection of Experimental Physics, the Botanical, Zoological, and Architectural collections, and the Peterson Coin collection. At Macdonald College there is a teaching collection containing an herbarium, a collection of insects, and some other exhibits related to Canadian agriculture.

MILITARY TRAINING

Under the regulations of the Canadian Government all male students at the University are required to take military training if they are physically fit.

This training may be taken with the Canadian Officers' Training Corps, the University Air Squadron, the University Naval Training Division, the Royal Canadian Army Medical Corps (for upper year medical students only), or the Canadian Dental Corps (for upper year students in Dentistry only).

The full regulations and instructions concerning this training are published at the beginning of each session.

CANADIAN OFFICERS' TRAINING CORPS

McGILL UNIVERSITY CONTINGENT

Honorary Colonel: COL. A. A. MAGEE, D.S.O., V.D., A.D.C.
Honorary Lieutenant-Colonel: LIEUT.-COL. T. S. MORRISEY, D.S.O.
Commanding Officer: LIEUT.-COL. J. M. MORRIS, M.C., V.D.

UNIVERSITY AIR SQUADRON

Commanding Officer: SQUADRON LEADER C. H. CARRUTHERS.
Administrative Officer: FLIGHT LIEUT. J. D. CARRUTHERS

UNIVERSITY NAVAL TRAINING DIVISION

Commanding Officer: LT.-CMDR. V. C. WYNNE-EDWARDS.

REGISTRATION

1943-44

Degree Students

	Men	Women	Total	
Faculty of Arts and Science:				
Arts Division:				
First Year	31	115	146	
Second Year	35	128	163	
Third Year	34	82	116	
Fourth Year	36	80	116	
Totals	136	405	541	
Cancellations 13				
Science Division:				
First Year	243	113	356	
Second Year	133	53	186	
Third Year	79	34	113	
Fourth Year	34	29	63	
Totals	489	229	718	
Cancellations 19				
Commerce Division:				
First Year	20	10	30	
Second Year	19	2	21	
Third Year	16	6	22	
Fourth Year	17	5	22	
Totals	72	23	95	
Cancellations 2				
Totals for the Faculty	697	657	1,354	1,354
Faculty of Engineering:				
Engineering Division:				
First Year	154	...	154	
Second Year	102	1	103	
Third Year	79	...	79	
Fourth Year	88	...	88	
Totals	423	1	424	
Cancellations 14				
Architecture Division:				
First Year	8	5	13	
Second Year	9	5	14	
Third Year	2	2	4	
Fourth Year	5	3	8	
Fifth Year	...	1	1	
Totals	24	16	40	
Cancellations 1				
Totals for the Faculty	447	17	464	464

	Men	Women	Total	
Faculty of Medicine:				
First Year	105	11	116	
Second Year	94	11	105	
Third Year	89	6	95	
Fourth Year	95	4	99	
Totals	383	32	415	415
Cancellations 3				
Faculty of Dentistry:				
First Year	19	1	20	
Second Year	18	...	18	
Third Year	16	...	16	
Fourth Year	12	...	12	
Totals	65	1	66	66
Cancellations 0				
Faculty of Law:				
First Year	12	2	14	
Second Year	8	1	9	
Third Year	10	...	10	
Totals	30	3	33	33
Cancellations 0				
Faculty of Music	...	6	6	6
Library School	...	6	6	6
Faculty of Agriculture:				
First Year	22	3	25	
Second Year	21	2	23	
Third Year	32	1	33	
Fourth Year	21	0	21	
Totals	96	6	102	102
Cancellations 1				
School of Household Science:				
First Year	...	22	22	
Second Year	...	29	29	
Third Year	...	23	23	
Fourth Year	...	22	22	
Totals	...	96	96	96
Cancellations 0				
Faculty of Graduate Studies and Research	124	50	174	174
Cancellations 5				
TOTAL DEGREE STUDENTS	1,842	874	2,716	2,716

Canadian Army University Course

	Men	Women	Total	
Junior Section	135	...	135	
Senior Section	111	...	111	
	246	...	246	246

Diploma Students

Faculty of Music:				
Licentiate Course	4	17	21	21
Faculty of Agriculture:				
First Year	16	1	17	
Second Year	6	...	6	
Third Year	...	...	...	
Totals	22	1	23	23
Cancellations 0				
Faculty of Medicine:				
Physiotherapy	...	7	7	7
School for Graduate Nurses	...	50	50	50
Cancellations 0				
School of Physical Education:				
First Year	...	13	13	
Second Year	...	9	9	
Graduate Year	...	...	...	
Totals	...	22	22	22
School for Teachers:				
Elementary Class	2	52	54	
Intermediate Class	1	17	18	
Kindergarten Class	...	2	2	
Totals	3	71	74	74
Cancellations 0				
Total Diploma Students	29	168	197	197

Partial Students

Total Partial Students	139	270	409	409
Cancellations 12				
TOTALS IN UNIVERSITY COURSES	2,256	1,312	3,568	3,568

Registered in more than one Faculty. 14
Total Cancellations 74

FACULTY OF ARTS AND SCIENCE

SUMMER SESSION—1944

	Men	Women	Total
Arts Division	7	16	23
Science Division	69	16	85
Engineering	4	1	5
	80	33	113
French Summer School	29	87	116
Duplicates	1	5	6
Summer School for Teachers—Macdonald College	9	146	155

OTHER COURSES—1943–44

Evening Accountancy Diploma Courses	483	146	629
Extension Lectures	843	932	1,775

McGILL UNIVERSITY

MONTREAL



DIRECTORY OF STUDENTS

1943 - 1944

TELEPHONE NUMBERS

Athletics Manager,
Sir Arthur Currie Memorial Gymnasium.....PL. 4488
Canadian Army University Course No. 2,
Douglas Hall.....MA. 7950
O.C., Can. Army University Course, Major Hope.....HA. 1964
Canadian Officers Training Corps,
Sir Arthur Currie Memorial Armoury.....BE. 3304
Conservatorium of Music,
677 Sherbrooke Street, West.....MA. 2080
Conservatorium of Music,
Secretary's Office.....MA. 2606
Dept. of Physical Education, (Men),
Sir Arthur Currie Memorial Gymnasium.....PL. 1881
Dept. of Physical Education, (Women),
555 Sherbrooke Street West.....MA. 9176
Diocesan College,
3474 University Street.....MA. 4902
Divinity Hall,
3510 University Street.....MA. 2646
Faculty Club,
3450 McTavish Street.....PL. 8789
Football Tickets, Sir Arthur Currie Memorial Gymnasium.....PL. 4489
Graduates' Society,
3466 University Street.....MA. 2664
International Labour Office,
3480 University Street.....PL. 2507
McGill Daily,
690 Sherbrooke Street West.....LA. 2244
McGill Daily,
Editor-in-Chief, J. MacLeod.....LA. 2244
(After 10 p.m. and on Sundays and Holidays).....LA. 8366
McGill University.....MA. 9181
McGill Union,
690 Sherbrooke Street West.....LA. 2244
President, Thomas Hutchinson.....LA. 2244
(After 10 p.m. and on Sundays and Holidays).....LA. 7872
Secretary, Jack Pye.....LA. 2244
(After 10 p.m. and on Sundays and Holidays).....LA. 8955
Montreal General Hospital,
Dorchester Street East.....PL. 7751
Players' Club Office,
690 Sherbrooke Street West.....LA. 2244
Purvis Hall,
1020 Pine Avenue West.....HA. 0719
Rink and Tennis Courts,
McTavish Street.....MA. 2705
Royal Victoria College,
555 Sherbrooke Street West.....MA. 9176
Royal Victoria Hospital,
Pine Avenue West.....PL. 1251
School of Nursing,
3466 University Street.....MA. 9181
School for Teachers,
772 Sherbrooke Street West.....HA. 6268
Student Christian Movement,
3574 University Street.....PL. 1156
Students' Employment Bureau,
690 Sherbrooke Street West.....LA. 2244
Students' Executive Council,
690 Sherbrooke Street West.....LA. 2244
President, Alex Stalker.....LA. 2244
(After 10 p.m. and on Sundays and Holidays).....LA. 2247 or EL. 0615
University Co-operative Residence,
3609 University Street.....LA. 6307
University Medical Officer,
Dr. F.G. Pedley (Residence).....AT. 6416
Macdonald College:
Men's Residence.....Ste. Anne 407, 810
Women's Residence.....Ste. Anne 806, 830

MEN'S FRATERNITIES

Alpha Delta Phi, 3478 McTavish Street.....PL. 7412
Delta Kappa Epsilon, 3653 University Street.....PL. 2073
Delta Sigma Phi, 3592 University Street.....PL. 2435
Delta Upsilon, 3434 McTavish Street.....PL. 6773
Kappa Rho Tau, 1210 Pine Avenue West.....HA. 0098
Nu Sigma Nu, 545 Pine Avenue West.....MA. 1545
Phi Chi, 3615 University Street.....LA. 4392
Phi Delta Theta, 3581 University Street.....MA. 3842
Phi Kappa Pi, 3647 University Street.....MA. 2806
Psi Upsilon, 3429 Peel Street.....PL. 7385
Sigma Chi, 3437 Peel Street.....PL. 1674
Theta Delta Chi, 432 Strathcona Avenue, Westmount.....FI. 7347
Theta Kappa Psi, 3605 University Street.....LA. 0643
Zeta Beta Tau, 3422 Stanley Street.....HA. 3840
Zeta Psi, 3637 University Street.....MA. 1824

WOMEN'S FRATERNITIES

Alpha Gamma Delta, 646 Sherbrooke Street, West.....PL. 5601
Alpha Omicron Pi, 3560 University Street.....LA. 8318
Delta Gamma, 900 Sherbrooke Street, West, (Apt.14).....PL. 6943
Delta Phi Epsilon, 795 Davaar Avenue.....DO. 8122
Gamma Phi Beta, 3601 University Street.....MA. 8740
Kappa Alpha Theta, 3570 University Street.....MA. 4068
Kappa Kappa Gamma, 768 Sherbrooke Street.....HA. 7911
Sigma Delta Tau, 481 Strathcona Avenue.....WE. 4315

OFFICERS 1943 - 1944

STUDENTS' SOCIETY OF McGILL UNIVERSITY

President:	Alexander Stalker
Vice-President:	Robert Morris
Secretary-Treasurer:	G.H. Fletcher

WOMEN'S UNION OF McGILL UNIVERSITY

President:	Marjorie F.M. Cross
Vice-President:	Janet Hamilton
Secretary:	Mary McCrimmon
Treasurer:	

ARTS AND SCIENCE

First Year	President	J. BALLON
	Vice-President	H. BRYANT
	Secretary-Treasurer	D. YORK
Second Year	President	D. PARSONS
	Vice-President	R. BRAIDWOOD
	Secretary-Treasurer	R. BRETT
Third Year	President	LESLIE E. MURAD
	Vice-President	A.B. GODZISZEWSKI
	Secretary-Treasurer	OWEN FONSECA
Fourth Year	President	E.L. DARRAGH
	Vice-President	T. WILSON
	Secretary-Treasurer	J. PATERSON

COMMERCE

First Year	President	DONALD MACKENZIE
	Vice-President	STEVE NOTAR
	Secretary-Treasurer	JANE BISHOP
Second Year	President	J. DAVIES
	Vice-President	JACK JENKINS
	Secretary-Treasurer	LORIS SALHANY
Third Year	President	DUNCAN CAMERON
	Vice-President	ADOLPHE WEXLER
	Secretary-Treasurer	BETTY McNAB
Fourth Year	President	ERIC TRIGG
	Vice-President	J. BEAUBIEN
	Secretary-Treasurer	BETTY STEE

First Year	President	G.R. CORBOSIERO
	Vice-President	J.C. GALLANT
	Secretary-Treasurer	ROBERTA DUNDASS
Second Year	President	D. BRUCE WARD
	Vice-President	GEO. McDOUGALL
	Secretary-Treasurer	IRA A. ROWLSON
Third Year	President	GEO. M. DUNDASS
	Vice-President	ERIC P. GILL
	Secretary-Treasurer	MAURICE E. BOURNE

ENGINEERING

First Year	President	A.A. KUNIGISKIS
	Vice-President	D.L.C. RENNIE
	Secretary-Treasurer	E.C. LARRABURE
Second Year	President	P.S. GRANT
	Vice-President	J.S. STONEHEWER
	Secretary-Treasurer	R.J. BALFOUR
Third Year	President	E.J. CROWTHER
	Vice-President	C. KNIGHT
	Secretary-Treasurer	W. DAWSON
Fourth Year	President	WILLIAM B. RICE
	Vice-President	ARTHUR TULLY
	Secretary-Treasurer	ARTHUR D. McKELLAR

LAW

First Year	President	GEOFFREY BIRTZ
	Vice-President	PAUL CASGRAIN
	Sectretary-Treasurer	MARC LAPOINTE
Second Year	President	JOHN COSTIGAN
	Vice-President	RUTH HILL
	Secretary-Treasurer	TOM McKENNA
Third Year	President	LLOYD McCLINTOCK
	Vice-President	MAURICE GODB
	Secretary-Treasurer	ALEX STALKER

LIBRARY SCHOOL

President	ALVARO ORTEGA
Vice-President	JACQUES L. DAVID
Secretary	ROLF DUSCHENES
Treasurer	SHEILA BAILLIE

SCHOOL OF GRADUATE NURSES

President	INEZ A. NOREM
Vice-President	HELEN FLETCHER
Secretary-Treasurer	MILDRED BEOGAN

MEDICINE

First Year	President	DONALD WEIR
	Vice-President	DEAN KEMPER
	Secretary-Treasurer	BARBARA CAMPBELL
Second Year	President	HAROLD A. BRASCH
	Vice-President	JOHN MARTIN
	Secretary-Treasurer	VALERIE FRIEDMAN
Third Year	President	IAN BROWN
	Vice-President	JACK CHARTERS
	Secretary-Treasurer	BARBARA COLLIP

McGILL SCHOOL OF PHYSICAL EDUCATION

First Year	President	MARY TUCKER
Second Year	President	RUTH HUBBELL

GRADUATE STUDENTS' ASSOCIATION

President	A.S. HAWKES
Vice-President	J.F. GARDNER
Secretary	D. ROBINSON
Treasurer	A. BOURNES

DIRECTORY OF STUDENTS

SCHOOL FOR TEACHERS
INTERMEDIATE CLASS

President: DOROTHY HAMILTON

Secretary: FRANCES ALLMAN

ELEMENTARY CLASS

President: MRS. GRAY

Secretary: RUTH ARCHIBALD

R.V.C.

Fourth Year	President:	ELAINE MINOR
	Vice-President:	BETTY WEATHERHILL
	Sec-Treasurer:	ELEANOR DOMBUSH
Third Year	President:	JUNE PERRY
	Vice-President:	SCOTTY WATSON
	Sec-Treasurer:	JOYCE AULT
Second Year	President:	LEE ESFAKIS
	Vice-President:	ALLIE WILSON
	Sec-Treasurer:	EILEEN HARRINGTON
First Year	President:	RAE HUNTER
	Vice-President:	DOROTHY PETERSON
	Sec-Treasurer:	JANE BISHOP

MACDONALD COLLEGE
(McGill University)

CLASS OFFICERS - 1943 - 1944

FACULTY OF AGRICULTURE

B.Sc.(Agr.)	4	-	President:	HERBERT F. HICKLIN
			Secretary:	JOHN D. McCAIG
	3	-	President:	LIONEL ST. ELMO JONES
			Secretary:	HENRI P. DUSSAULT
	2	-	President:	C. H. GILPATRICK
			Secretary:	W.R.C. BRADFORD
	1	-	President:	C. IRVING SLACK
			Secretary:	HAROLD SIMKOVER

SCHOOL OF HOUSEHOLD SCIENCE

B.Sc.(H.Ec.)	4	-	President:	PEGGY MILLS
			Secretary:	DOROTHY CAMPBELL
	3	-	President:	JOYCE HESLAM
			Secretary:	VERA WARNOCK
	2	-	President:	MARJORIE TAGGART
			Secretary:	CONSTANCE MacKINNON
	1	-	President:	MARGARET TRUEMAN
			Secretary:	SYLVIA EARDLEY-WILMOT

McGILL UNIVERSITY

DIRECTORY OF STUDENTS

SESSION 1943-44

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
ABBEY, Marjorie MacD.	B.A.3	45 Parkside Ave., Montreal West	DE. 9515
ABBEY, Sheila T.	B.Sc.1	3585 Addington Ave., Montreal	EL 5122
ABER, William	B.Eng.1	3573 Decarie Blvd., Montreal	DE 5695
ABLACK, John L.	Dent.1	2047 Union Ave., Montreal	LA 3380
		Princes Town, Trinidad, B.W.I.	
ABOUD, Daniel	B.Sc.4	3485 McTavish St., Montreal	PL 1649
		592 - 6th Ave., Grandmere, P.Q.	
ABOUD, Joseph	B.Com.4	2171 St.Catherine St.W., Montreal	FI 8201
		56 - 7th St., Shawinigan Falls, P.Q.	
ABRAHAM, R.E.	Army Course	Douglas Hall	MA 7950
		Toronto, Ont.	
ABRAMSON, Ruth	B.Sc.1	5416 Esplanade Ave., Montreal.	
		64 Chmielna, Warsaw, Poland.	
ABSON, Shirley E.	B.Com.1	1385 Bernard Ave.W., Outremont	CA 7822
ADAMS, Samuel T.	Med.4	4333 Westmount Ave., Westmount	WI 5959
ADELES, Rosalind	B.Com.2	5714 Darlington Ave.Apt.9, Mtl.	AT 1967
ADELSON, Edward	B.Sc.Agr.3	Macdonald College, P.Q.	St.A. 810
		738 Querbes Ave., Outremont.	
ADELSTEIN, Peter	B.Eng.2	4210 Marcil Ave., Montreal	DE 5657
ADILMAN, Mona E.	B.A.3	5156 Notre Dame de Grace Ave., Mtl.	DE 7884
AFFLECK, Lois	Arts P Grad.Sch.	2106 Claremont Ave.Apt.42, Mtl.	EL 2337
AFFLECK, Raymond T.	Arch.2	2106 Claremont Ave., Montreal	EL 2337
AGAPITOS, Emmanuel	B.Sc.1	153 Milton St., Montreal	LA 9643
AGRANOVITCH, Edna	B.A.4	4400 Rivard St., Montreal	PL 3793
AIKINS, James P.	Med.2	3847 Wilson Ave., Montreal	WA 3897
AITCHISON, Marion E.	B.A.1	2 Granville Road, Hampstead	WA 1012
ALARIE, Joseph Albert M.	Grad.Sch	Macdonald College, P.Q.	St.A. 810
		Ste Anne de la Pocatiere, P.Q.	
ALBERT, A.A.	Army Course	Douglas Hall	MA 7950
		Caraquet, N.B.	
ALBERT, Benjamin	B.A.3	769 Davaar Ave., Outremont	CA 4371
ALBERT, Harold S.	Med.4	3422 Stanley St., Montreal.	
		24 High St., Newport, R.I.	
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NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.

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